

0950003.0400  
F00T00

35 40 45  
Ala Ser Phe Cys Phe Gly Cys Arg Glu Trp Phe Ile His Thr Leu Ile  
50 55 60  
Pro Ser Pro Pro Leu Val Asp Gly Gly Leu Ala Phe Ser Ile Pro Val  
65 70 75 80  
Phe Trp Cys Leu Pro Leu Ser Ala Thr Leu Asn His Leu Ser Trp Ser  
85 90 95  
Cys Cys Val Met Gly Thr Cys Leu  
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<210> 2624  
<211> 19  
<212> PRT  
<213> Homo sapiens

<400> 2624  
Val Cys Leu Leu Cys Ile Pro Gly Ala Gln Asn Arg Ala Trp His Ile  
1 5 10 15  
Val Gly Ala

<210> 2625  
<211> 83  
<212> PRT  
<213> Homo sapiens

<400> 2625  
Met Ile Phe Leu Arg Lys Ala Ile Leu Leu Gln Leu Phe Pro Lys Ser  
1 5 10 15  
Cys Ser Gly Asn Gly Trp Ser Ser Tyr Ser Gln Trp Arg Gly Glu Gln  
20 25 30  
Val Gly Leu Gly Ile Tyr Leu Phe Arg Leu Leu Val Gly Trp Ser Trp  
35 40 45  
Gly Ile Glu Ile Asn Gln Glu Asp Val Ser Thr Lys Pro Ala Val Ser  
50 55 60  
Gln Leu Arg Glu Cys Leu Gly Ser Gln Glu Thr Trp Thr Gly Gly Val  
65 70 75 80  
Trp Val Asp

<210> 2626  
<211> 104  
<212> PRT  
<213> Homo sapiens

[illegible]

Leu Trp Ala Ala Leu Phe Leu Val Glu Leu Leu Gln Glu Val Pro Ile  
20 25 30

Met Thr Cys Ser Asn Ala Asn Thr Pro Ser Val Asn Thr Gly Tyr Phe  
35 40 45

Lys Leu Ser Ser Val Ala Thr Thr Leu Arg Gln Gln Gln Leu Val Leu  
50 55 60

Glu Ile Ser Leu Met Ser Val Pro Pro Gly Cys Gly Pro Leu Leu Pro  
65 70 75 80

Val Leu Ile Pro Val Ala Ser Phe Cys Cys Ile Ile Thr Ile Trp Leu  
85 90 95

Leu Ile Leu Met Phe Glu Lys Asp  
100

<211> 59

<212> PRT

<213> Homo sapiens

Leu Leu Gly Thr Trp Leu Cys Pro Gln Leu Pro Pro Gly Leu Gly Ala

His His Ala Pro Ser Ser Phe Ser Ser Tyr Leu Cys Pro Val Ser Pro  
20 25 30

Ser Ile Arg Leu Ser Asp Gly Thr Leu Trp Glu Arg Leu Trp Pro Trp

Ser Gly Gly Arg Glu Gln Gly Gly Arg His Lys  
50 55

<211> 36

&lt;212&gt; PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

Met Gly Val Phe Phe Ile Leu Arg Xaa Leu Thr Ser Gln Cys Phe Leu  
1 5 10 15

Ser Trp Phe Leu Gly Phe Val Ser Ala Glu Ser Phe Glu Gln Trp Ser  
20 25 30

Ile Ser Gly Ser  
35

<210> 2629  
<211> 29  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (6)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2629  
Met Cys Cys His Ile Xaa Gln Ile Ala Thr Val Leu Leu Leu Ser Leu  
1 5 10 15  
Cys Trp Leu Cys Ala Thr Leu Met Val Pro Arg Asn Arg  
20 25

<210> 2630  
<211> 51  
<212> PRT  
<213> Homo sapiens

<400> 2630  
Met Pro Trp Phe Val Pro Leu Val Ser Trp Glu Glu Leu Ala Pro Ala  
1 5 10 15  
Gln Leu Ser Cys His Trp Pro Phe Arg Val Gly Leu Gly Pro Glu Cys  
20 25 30  
Leu Leu Val Ala Ser His Gly Gly Leu Met Ala Gln Pro Ser Pro Lys  
35 40 45  
Arg Ala Gln  
50

<210> 2631  
<211> 27  
<212> PRT  
<213> Homo sapiens

<400> 2631  
Met Ala Leu Ala Gly Phe Phe Leu Pro Trp Thr His Cys Cys Arg Leu  
1 5 10 15  
Ser Leu Lys Phe Leu Cys Gly Val Thr Arg Ser  
20 25

<210> 2632  
<211> 15  
<212> PRT

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<213> Homo sapiens

<400> 2632

Met Leu Ile Val Leu Leu Ile Asn Leu Ser Ser Glu Pro Ser Cys  
1 5 10 15

<210> 2633

<211> 3

<212> PRT

<213> Homo sapiens

<400> 2633

Met Ser Thr  
1

<210> 2634

<211> 32

<212> PRT

<213> Homo sapiens

<400> 2634

Met Tyr Val Asn Leu Asn Thr Val His Asp Ala Leu Leu Tyr Leu Leu  
1 5 10 15

Leu Leu Leu Leu Ile Met Asp Lys Met Trp Met Gly Ala Glu Arg Glu  
20 25 30

<210> 2635

<211> 39

<212> PRT

<213> Homo sapiens

<400> 2635

Met Phe Gln Leu Cys Leu Glu Ile Phe Gln Phe Phe Val Ser Val Phe  
1 5 10 15

Ile Ser Phe Leu Glu Ser Leu Ala Glu Phe Gln Glu Thr Val Ala His  
20 25 30

Leu Leu Val Met Lys Cys Phe  
35

<210> 2636

<211> 126

<212> PRT

<213> Homo sapiens

<400> 2636

Met Glu Arg Leu Gly Val Leu Trp Thr Leu Leu Val Ser Arg Trp Phe  
1 5 10 15



Ile Cys Leu Phe Val Asp Ile Leu Pro Val Glu Thr Val Leu Arg Ile  
20 25 30

Trp Asp Cys Leu Phe Asn Glu Gly Ser Lys Ile Ile Phe Arg Val Ala  
35 40 45

Leu Thr Leu Ile Lys Gln His Gln Glu Leu Ile Leu Glu Ala Thr Ser  
50 55 60

Val Pro Asp Ile Cys Asp Lys Phe Lys Gln Ile Thr Lys Gly Ser Phe  
65 70 75 80

Val Met Glu Cys His Thr Phe Met Gln Val Cys Gly Ala Ala Arg Gly  
85 90 95

Ser Val Pro Ser Gln Gly Ala Pro Pro His Leu Gln Pro Gly Gly Cys  
100 105 110

Ser Asp His Pro Glu Gly Ala Gln Asp Gly His Gln Trp Ala  
115 120 125

<210> 2637

<211> 35

<212> PRT

<213> Homo sapiens

<400> 2637

Met Lys Leu Ser Cys Cys Phe Phe Gly Ala Leu Glu Trp Thr Phe Leu  
1 5 10 15

Ala Ala Val Thr Leu Gly Pro Leu Pro Ser Arg Val Leu Leu Cys His  
20 25 30

Arg Gly Cys  
35

<210> 2638

<211> 31

<212> PRT

<213> Homo sapiens

<400> 2638

Met Leu Leu Cys Val Leu Ile Val His Cys Phe Leu Phe Leu Asn Ser  
1 5 10 15

Leu Ala Leu Tyr Gly Cys Pro Thr Val Val Tyr Pro Leu Ala Ser  
20 25 30

<210> 2639

<211> 15

<212> PRT

<213> Homo sapiens

<400> 2639

00050003.004004

Met Asn Ser Gly Gly Ser Gly Trp Cys Gly Pro Ser Ser Ser Ser  
1 5 10 15

<210> 2640  
<211> 32  
<212> PRT  
<213> Homo sapiens

<400> 2640  
Met Leu Ser Leu Ala Leu Leu Trp Pro Ile Phe Ile Leu Phe Thr Val  
1 5 10 15

Gln Cys His Leu Phe Gly Asn Thr Gln His Gln Arg Val Leu Pro Asn  
20 25 30

<210> 2641  
<211> 32  
<212> PRT  
<213> Homo sapiens

<400> 2641  
Met Leu Ser Leu Ala Leu Leu Trp Pro Ile Phe Ile Leu Phe Thr Val  
1 5 10 15

Gln Cys His Leu Phe Gly Asn Thr Gln His Gln Arg Val Leu Pro Asn  
20 25 30

<210> 2642  
<211> 46  
<212> PRT  
<213> Homo sapiens

<400> 2642  
Met Asn Phe Phe Leu Gly Leu Trp Leu Leu Tyr Ile Leu Tyr Ile Leu  
1 5 10 15

Arg Ile Leu Tyr Thr Ile Leu Ile Tyr Cys Asn Thr Ala Val Phe Asp  
20 25 30

Asn Leu Asp Ser Ile Trp Tyr Met Asn Phe Cys Ile His Tyr  
35 40 45

<210> 2643  
<211> 66  
<212> PRT  
<213> Homo sapiens

<220>

<221> SITE

<222> (61)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2643

Met Lys Arg Thr Leu Leu Ser Ser Val Ile Cys Leu Ser Ala Ser Pro  
1 5 10 15

Ala Gln Gly Gln Ala Pro Trp Gln Cys Pro Ala Val Thr Gly Asp Ser  
20 25 30

Ala Glu Val Thr Tyr Pro Glu Lys Pro Leu His Gly Leu Ser Arg Arg  
35 40 45

Glu Lys Thr Ala Leu Pro Gly Pro Trp Phe Gly Leu Xaa Arg Gly Lys  
50 55 60

Gly Pro  
65

<210> 2644

<211> 38

<212> PRT

<213> Homo sapiens

<400> 2644

Met Ile Leu Ser Val Leu Arg Asn Thr Gly Leu Cys Thr Ser Leu Phe  
1 5 10 15

Met Gly Leu Trp Ile Leu Phe Ile Leu Arg Pro Val Tyr Asn Cys Phe  
20 25 30

Leu Pro Lys Gly Ile Val  
35

<210> 2645

<211> 57

<212> PRT

<213> Homo sapiens

<400> 2645

Met Gly Leu Leu Tyr Met Val Leu Leu Lys Ser Ile Val Phe Phe Ser  
1 5 10 15

Gly Val Ser Glu Glu Leu Lys Ala Tyr Gly Val Gly Leu Gln Thr Val  
20 25 30

Ile Glu Phe Leu Gln Asn Thr Arg Phe Trp Ala Trp Arg Trp Ile Ser  
35 40 45

Gln Ala Leu Leu Gly Leu Ala Leu Lys  
50 55

<210> 2646

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Gly Pro

<210> 2650  
<211> 45  
<212> PRT  
<213> Homo sapiens

<400> 2650  
Met Cys Ile Leu Cys Tyr Thr Gln Gly Pro Lys Phe Leu Gln Leu Phe  
1 5 10 15  
Ile His Ala Ile Val Leu Leu Phe Ala Glu Met Glu Ile Ile Tyr Thr  
20 25 30  
Glu Leu Gln Ile Pro Glu Met Phe His Leu Tyr Leu Ile  
35 40 45

<210> 2651  
<211> 23  
<212> PRT  
<213> Homo sapiens

<400> 2651  
Cys Leu Gln Trp Phe Val Pro Leu Val Pro Gln Gln Ile Pro Glu Leu  
1 5 10 15  
Ile Leu Met Thr Ile Trp Lys  
20

<210> 2652  
<211> 123  
<212> PRT  
<213> Homo sapiens

<400> 2652  
Met Val Trp Gln Pro Phe Phe Tyr Leu Phe Asn Gln Glu Asp Ala Gly  
1 5 10 15  
Glu Leu Cys Cys Leu Ser Cys Trp Leu Val Ala Ala Leu Cys Pro Gly  
20 25 30  
Val Cys Met Trp Val Tyr Leu Glu Leu Leu Ser Leu Pro Ser His Cys  
35 40 45  
Lys Leu His Pro Asp Glu Thr Ala Val Val Leu Gly Leu Phe His Leu  
50 55 60  
Ser Leu Pro Val Pro Ala Ser Ser Trp Leu Ser Cys Ala Trp Asp Met  
65 70 75 80  
Gly Leu Pro Ile Cys Val Phe Ser Lys Ser Gly Ala Asp Gln Glu His  
85 90 95

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Thr Lys Val Trp Ser Cys Ile Ile Thr Asn Ile His Ser Ser Gly Thr  
100 105 110

Phe Leu Arg Tyr Ile Tyr Lys Ser Phe Gln Gln  
115 120

<210> 2653  
<211> 123  
<212> PRT  
<213> Homo sapiens

<400> 2653  
Met Val Trp Gln Pro Phe Phe Tyr Leu Phe Asn Gln Glu Asp Ala Gly  
1 5 10 15  
Glu Leu Cys Cys Leu Ser Cys Trp Leu Val Ala Ala Leu Cys Pro Gly  
20 25 30  
Val Cys Met Trp Val Tyr Leu Glu Leu Leu Ser Leu Pro Ser His Cys  
35 40 45  
Lys Leu His Pro Asp Glu Thr Ala Val Val Leu Gly Leu Phe His Leu  
50 55 60  
Ser Leu Pro Val Pro Ala Ser Ser Trp Leu Ser Cys Ala Trp Asp Met  
65 70 75 80  
Gly Leu Pro Ile Cys Val Phe Ser Lys Ser Gly Ala Asp Gln Glu His  
85 90 95  
Thr Lys Val Trp Ser Cys Ile Ile Thr Asn Ile His Ser Ser Gly Thr  
100 105 110  
Phe Leu Arg Tyr Ile Tyr Lys Ser Phe Gln Gln  
115 120

<210> 2654  
<211> 87  
<212> PRT  
<213> Homo sapiens

<400> 2654  
Met Leu Leu Ala Asn Leu Arg His Gly Gly Thr Val Asp Glu Tyr Leu  
1 5 10 15  
Gln Asp Gln Leu Ile Val Phe Met Ala Leu Ala Asn Gly Val Ser Arg  
20 25 30  
Ile Lys Thr Gly Pro Val Thr Leu His Thr Gln Thr Ala Ile His Phe  
35 40 45  
Ala Glu Gln Ile Ala Lys Ala Lys Phe Ile Val Lys Lys Ser Glu Asp  
50 55 60  
Glu Glu Asp Ala Ala Lys Asp Thr Tyr Ile Ile Glu Cys Gln Gly Ile  
65 70 75 80

Gly Met Thr Asn Pro Asn Leu  
85

<210> 2655  
<211> 31  
<212> PRT  
<213> Homo sapiens

<400> 2655  
Met Leu Val Phe Val Leu Leu Trp Ile Ser His Leu Phe Ser Gly Arg  
1 5 10 15  
Ser Glu His Cys Ser Leu Val Gln Ser Ser Tyr Phe Pro Ser Ser  
20 25 30

<210> 2656  
<211> 41  
<212> PRT  
<213> Homo sapiens

<400> 2656  
Met Ala Ala Asn Ala Asn Ile Leu Trp Asn Ser Ser Lys Ser Thr Arg  
1 5 10 15  
Asp Pro Gly Trp Phe Phe Val Leu Phe Ser Leu Phe Phe Pro Pro Ser  
20 25 30  
Pro Glu Ser Ala Gly Met Glu Gly Gly  
35 40

<210> 2657  
<211> 35  
<212> PRT  
<213> Homo sapiens

<400> 2657  
Met Thr Ile Ile Cys Leu Leu Phe Leu Thr Leu Leu Leu Leu Leu Phe  
1 5 10 15  
Lys Gly Ile Val Gln Ser Ser Ile Leu Tyr Leu Trp Gln Gln Val Lys  
20 25 30  
Val Ser Arg  
35

<210> 2658  
<211> 17  
<212> PRT  
<213> Homo sapiens

<400> 2658  
Leu Leu Cys Val Leu Ala Gly Leu Thr Leu Leu His His Cys Gln Leu  
1 5 10 15

Ala

<210> 2659  
<211> 58  
<212> PRT  
<213> Homo sapiens

<400> 2659  
Met Gln Gln Lys Glu Pro Trp Ala Trp Ser Met Gln Asn Trp Phe Leu  
1 5 10 15  
Leu Gln Leu Leu Leu Leu Val Gly Ser Gly Arg Lys His Ile Glu Phe  
20 25 30  
Met Ile Met Val Asn Leu Trp Arg Glu Arg Gly Asp Gln Asp Glu Gly  
35 40 45  
Ala Ser Arg Arg Ser Cys Ser Ser Val His  
50 55

<210> 2660  
<211> 19  
<212> PRT  
<213> Homo sapiens

<400> 2660  
Lys Phe Trp Phe Ala Phe Glu Leu Phe Leu Phe Met Trp Leu Leu Ile  
1 5 10 15  
Ile Ser Ser

<210> 2661  
<211> 32  
<212> PRT  
<213> Homo sapiens

<400> 2661  
Met Val Leu His Phe Leu Asp Thr Ile Leu Ile Phe Leu Ile Pro Pro  
1 5 10 15  
Pro Thr Phe Gln Ile Ala Ser Leu Met Pro Gln Arg Leu Leu Cys Pro  
20 25 30

<210> 2662  
<211> 65  
<212> PRT  
<213> Homo sapiens



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<220>  
<221> SITE  
<222> (28)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (42)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2662  
Met Val Pro Leu Leu Phe Leu Pro Leu Asp Ser Trp Leu Trp Arg Glu  
1 5 10 15  
Lys Lys Tyr His Leu Leu Asp Ala Asp Ser Glu Xaa Ile Tyr Ser Pro  
20 25 30  
Leu Glu Asn Ser Ala Leu Pro Ala Ser Xaa Cys His Leu Ala Gly Ala  
35 40 45  
Ile Thr Glu Ser Ser Lys Gly His Pro Ile Ile Leu Leu Gly Gln Leu  
50 55 60  
Leu  
65

<210> 2663  
<211> 18  
<212> PRT  
<213> Homo sapiens

<400> 2663  
Met Glu Val Phe Leu Tyr Leu Gly Val Val Gly Phe Trp His Ile Gly  
1 5 10 15  
Ile Ser

<210> 2664  
<211> 30  
<212> PRT  
<213> Homo sapiens

<400> 2664  
Met Asn Phe Gln Val Trp Gly Thr Gly Gln Cys Thr Phe Leu Ser Leu  
1 5 10 15  
Phe Ile Leu Leu Phe Leu Lys Ile Cys Asn Thr Tyr Gln Arg  
20 25 30

<210> 2665  
<211> 32  
<212> PRT  
<213> Homo sapiens

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<400> 2665

Met Ile Ser Arg Gly Ile Thr Ile Tyr Leu Thr Val Leu Leu Thr Tyr  
1 5 10 15

Thr Val Val Leu Phe Tyr Leu Phe Lys Ser Gly Phe Ser Ala Phe His  
20 25 30

<210> 2666

<211> 32

<212> PRT

<213> Homo sapiens

<400> 2666

Met Ala Leu Gln Ala Phe Ser Ser Leu Leu Leu His Ile Leu Ser Thr  
1 5 10 15

Ser Thr His Tyr Pro Val Pro Lys Pro Leu Pro His Phe Gln Ala Leu  
20 25 30

<210> 2667

<211> 37

<212> PRT

<213> Homo sapiens

<400> 2667

Met Val Ser Val Ser Arg Gln Thr Leu Val Thr Phe Ser Leu Val Tyr  
1 5 10 15

Val Pro Phe Leu Leu Leu His Ile Phe Gly Ser Lys Ser Tyr Trp Leu  
20 25 30

Asn Gln Gln Gly Leu  
35

<210> 2668

<211> 36

<212> PRT

<213> Homo sapiens

<400> 2668

Met Pro Gly Lys Leu Asn Pro Cys Leu Leu Trp Leu Leu Ile Leu Met  
1 5 10 15

Leu Phe Lys Lys Cys Lys Lys Ala Ser Leu Val Ser Lys Arg Ser Trp  
20 25 30

Ile Tyr Ile Ala  
35

<210> 2669  
 <211> 25  
 <212> PRT  
 <213> Homo sapiens

<400> 2669  
 Met Lys Lys Arg Leu Ser Pro Leu Ser Trp Ala Arg Cys Cys Leu Cys  
     1                    5                    10                    15  
 Phe Trp Leu Gln Val Gly Thr Thr Asn  
                     20                    25

<210> 2670  
 <211> 17  
 <212> PRT  
 <213> Homo sapiens

<400> 2670  
 Met Leu Ser Pro Gly Arg Cys Phe Ala Ile Trp Ser Leu Phe Leu Cys  
     1                    5                    10                    15  
 Ser

<210> 2671  
 <211> 65  
 <212> PRT  
 <213> Homo sapiens

<400> 2671  
 Met Pro Phe Trp Ile Leu Pro His Val Asp Cys Leu Cys Val Cys Met  
     1                    5                    10                    15  
 Phe Gly Val Arg Met Cys Glu Thr Leu Leu Trp Phe Trp Glu Ser Glu  
                     20                    25                    30  
 Leu Tyr Arg Thr Val Tyr Lys Met Ser Leu Pro His His Pro Tyr Ser  
                     35                    40                    45  
 Ala Leu Leu Thr Leu Phe Phe Pro Pro Ser Ser His Ser His Ser Ser  
     10                    55                    60  
 Phe  
   65

<210> 2672  
 <211> 9  
 <212> PRT  
 <213> Homo sapiens

<400> 2672  
 Met Phe Met Met Ser Val Tyr Ile Leu

1

5

<210> 2673  
 <211> 41  
 <212> PRT  
 <213> Homo sapiens

<400> 2673  
 Met Ser Met Cys Lys Val Arg Arg Gly Ser Leu Asn Tyr Leu Leu Leu  
           1                  5                  10                  15  
 Phe Trp Leu Thr Ser Pro Ile Phe Lys Thr Leu Ser Asn Ser Gln Asn  
                   20                  25                  30  
 Leu Leu Met Arg His Val Val Leu Asn  
           35                  40

<210> 2674  
 <211> 66  
 <212> PRT  
 <213> Homo sapiens

<400> 2674  
 Trp Leu Arg Phe Trp Cys Val Phe Ser Ser Cys Ser Gln Leu Gly Leu  
           1                  5                  10                  15  
 Gly Leu Pro Lys Arg Trp Ile Ser Val Ser Thr Lys Ile Gln Gln Ile  
                   20                  25                  30  
 Ile Thr Val Ser Pro Phe Asn Pro Phe Arg Asp Lys Val Arg Ile Ile  
           35                  40                  45  
 Tyr Asn Gly Thr Leu Ala Leu Gln Gly Leu Phe Thr Trp Tyr Leu Ser  
           50                  55                  60  
 Tyr Tyr  
           65

<210> 2675  
 <211> 39  
 <212> PRT  
 <213> Homo sapiens

<400> 2675  
 Met Gly Ala Ser Gln Cys Pro Phe Ala Ala Ala Leu Arg Pro Leu His  
           1                  5                  10                  15  
 Phe Leu Leu Trp Val Ala Ala Leu Leu Gly Leu Gln Gln Pro Leu Gln  
                   20                  25                  30  
 Arg Leu Gln Leu Arg Asn Ala  
           35

<210> 2676  
<211> 35  
<212> PRT  
<213> Homo sapiens

<400> 2676  
Met Ser Ile Gln Ile Ile Cys Cys Leu Trp Phe Phe Leu Tyr Leu Ile  
1 5 10 15  
Thr Cys Gln Lys Pro Ser Leu Pro Leu Asp Phe Phe Ile Leu Pro Ser  
20 25 30  
Ser Glu Val  
35

<210> 2677  
<211> 30  
<212> PRT  
<213> Homo sapiens

<400> 2677  
Met Trp Gln Ile Ala Met Ile Thr Leu Trp Ser Leu Leu Val Ser Gly  
1 5 10 15  
Asn His Gln Leu Glu Leu Arg Met Leu Asp Thr Val Pro Arg  
20 25 30

<210> 2678  
<211> 39  
<212> PRT  
<213> Homo sapiens

<400> 2678  
Met Phe Gln Asp Ile Leu Ala Leu Cys Leu Trp Leu Leu Pro Gly Val  
1 5 10 15  
Trp His His Ser Val Val Thr Tyr Asn His Cys Leu Gly Thr His Arg  
20 25 30  
Val Asn Cys Leu Ser Asp Lys  
35

<210> 2679  
<211> 33  
<212> PRT  
<213> Homo sapiens

<400> 2679  
Met Asp Tyr Phe Leu Leu Ala Arg Ala Asp Pro Asn Ala Leu Pro Trp  
1 5 10 15  
Glu Pro Ala Glu Phe Cys Pro Val Leu Leu Ala Val Thr Gly Gln  
20 25 30  
His



Met

<210> 2684  
<211> 180  
<212> PRT  
<213> Homo sapiens

<400> 2684  
Met His Gln Cys Glu Ile Trp Arg Glu Leu Phe Ser Pro Leu His Ala  
1 5 10 15  
Leu Asn Phe Gly Ile Gly Gly Asp Gly Thr Gln His Val Leu Trp Arg  
20 25 30  
Leu Glu Asn Gly Glu Leu Glu His Ile Arg Pro Lys Ile Val Val Val  
35 40 45  
Trp Val Gly Thr Asn Asn His Gly His Thr Ala Glu Gln Val Thr Gly  
50 55 60  
Gly Ile Lys Ala Ile Val Gln Leu Val Asn Glu Arg Gln Pro Gln Ala  
65 70 75 80  
Arg Val Val Val Leu Gly Leu Leu Pro Arg Gly Gln His Pro Asn Pro  
85 90 95  
Leu Arg Glu Lys Asn Arg Gln Val Asn Glu Leu Val Arg Ala Ala Leu  
100 105 110  
Ala Gly His Pro Arg Ala His Phe Leu Asp Ala Asp Pro Gly Phe Val  
115 120 125  
His Ser Asp Gly Thr Ile Ser His His Asp Met Tyr Asp Tyr Leu His  
130 135 140  
Leu Ser Arg Leu Gly Tyr Thr Pro Val Cys Arg Ala Leu His Ser Leu  
145 150 155 160  
Leu Leu Arg Leu Leu Ala Gln Asp Gln Gly Gln Gly Ala Pro Leu Leu  
165 170 175  
Glu Pro Ala Pro  
180

<210> 2685  
<211> 35  
<212> PRT  
<213> Homo sapiens

<400> 2685  
Met Lys Met Asn Lys Leu Phe Trp Ile Arg Ile Leu Lys Leu Leu Leu  
1 5 10 15  
Gln Ala Leu Ser Gln Cys Lys Leu Leu Ile Lys Gly Lys Leu Gln Cys  
20 25 30

Pro Arg Ile  
35

<210> 2686  
<211> 39  
<212> PRT  
<213> Homo sapiens

<400> 2686  
Met Ala Met Gly His Leu Val Phe Ile Ser Gly Ile Ile Gln Leu Val  
1 5 10 15  
Lys Gly Met Tyr Leu Ser Ala Trp Tyr Pro Leu Gln Lys Ser Trp Asn  
20 25 30  
Leu Thr Trp His Asn Lys Pro  
35

<210> 2687  
<211> 5  
<212> PRT  
<213> Homo sapiens

<400> 2687  
Met Trp Thr Cys Lys  
1 5

<210> 2688  
<211> 39  
<212> PRT  
<213> Homo sapiens

<400> 2688  
Met Phe Arg Arg Gly Phe Gly Ser Phe Cys Phe Cys Phe Leu Lys His  
1 5 10 15  
Val Phe His Ser His Leu Gly Ile Leu Glu Ala Gly Gln Leu Ala Gly  
20 25 30  
Phe Leu Gly Cys Arg Glu Thr  
35

<210> 2689  
<211> 31  
<212> PRT  
<213> Homo sapiens

<400> 2689  
Met Pro Cys Pro Phe Ala His Leu Val Leu Leu Val Val Thr Ser Leu  
1 5 10 15  
Val Thr Gly Lys Val Ser Lys Asp Ile Gly Val Glu His Pro Gly  
20 25 30



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<210> 2690  
<211> 35  
<212> PRT  
<213> Homo sapiens

<400> 2690  
Met Val Lys Leu Leu Val Lys Leu Thr Phe Ile Ile Ser Pro Leu Ile  
1 5 10 15  
Lys Ser Ser Asp Ser Gly Ile Thr Ser Leu Ser Cys Ser Tyr Gln Arg  
20 25 30  
Ala Ile Phe  
35

<210> 2691  
<211> 17  
<212> PRT  
<213> Homo sapiens

<400> 2691  
Met Gln Lys Leu Lys Gly Gly Ile Ser Val Phe Leu Ala Phe Leu Leu  
1 5 10 15  
Met

<210> 2692  
<211> 37  
<212> PRT  
<213> Homo sapiens

<400> 2692  
Met Ile Leu Lys Gln Gly Leu Ile Cys Thr Trp Gln Val Leu Leu Leu  
1 5 10 15  
Ala Ser Ala Leu Glu Met Leu Val Phe Ile Cys Ala Met Glu Cys Leu  
20 25 30  
Thr Gln Phe Gln Val  
35

<210> 2693  
<211> 53  
<212> PRT  
<213> Homo sapiens

<400> 2693  
Met Tyr Phe Phe Lys Ile Ser Ile Leu Leu Ser Leu Tyr Asn Ile Ser  
1 5 10 15  
Ile Leu Leu Cys Met Tyr Lys Leu Phe Asn Met Lys Phe Ala Glu Tyr



Tyr Ile Leu Trp Cys Ser His Trp Lys Trp Lys Asn Gly Ile Ile Tyr  
20 25 30

Ile Ile Tyr Ile Asn Ile Tyr Tyr Thr Tyr Ser Pro Tyr Phe Ile Ser  
35 40 45

Val Thr Ile Pro Ile Glu Phe Asp Lys Asn Cys Tyr Asp  
50 55 60

<210> 2698  
<211> 5  
<212> PRT  
<213> Homo sapiens

<400> 2698  
Met His Ile Ile Gln  
1 5

<210> 2699  
<211> 92  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (32)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2699  
Met His Phe Leu Phe Gly Tyr Tyr Val Phe Ser Leu Thr Ser Ala Ser  
1 5 10 15

Pro Ala Leu Trp Ala Ala Ala Ser Thr Cys Ser Ser Asp Leu Asp Xaa  
20 25 30

Pro Cys Trp Val Leu Val His Leu Leu Ile Trp Cys Phe Val Cys His  
35 40 45

Gln Tyr Leu His Cys Ser Trp Trp Asp Val Ser His His Leu Leu Tyr  
50 55 60

Leu Leu Pro Thr Arg Lys Ile Lys Arg Ser Tyr Phe Phe Pro Leu Arg  
65 70 75 80

Ser Asn Phe Ser Leu Asp Ser Trp Tyr Pro Gln Phe  
85 90

<210> 2700  
<211> 11  
<212> PRT  
<213> Homo sapiens

<400> 2700  
Met Phe Val Cys Leu Phe Leu Ile Asn Asn Ile  
1 5 10

<210> 2701  
 <211> 120  
 <212> PRT  
 <213> Homo sapiens

<400> 2701  
 Val Val Phe Gly Ala Ser Leu Phe Leu Leu Leu Ser Leu Thr Val Phe  
           1                  5                          10                          15  
 Ser Ile Val Ser Val Thr Ala Tyr Ile Ala Leu Ala Leu Leu Ser Val  
                   20                          25                          30  
 Thr Ile Ser Phe Arg Ile Tyr Lys Gly Val Ile Gln Ala Ile Gln Lys  
                   35                          40                          45  
 Ser Asp Glu Gly His Pro Phe Arg Ala Tyr Leu Glu Ser Glu Val Ala  
           50                          55                          60  
 Ile Ser Glu Glu Leu Val Gln Lys Tyr Ser Asn Ser Ala Leu Gly His  
           65                          70                          75                          80  
 Val Asn Cys Thr Ile Lys Glu Leu Arg Arg Leu Phe Leu Val Asp Asp  
                   85                          90                          95  
 Leu Val Asp Ser Leu Lys Leu Ser Phe His Ser Ser Val Phe Leu Leu  
           100                          105                          110  
 Phe Met Asn Gly Ile Arg His Arg  
           115                          120

<210> 2702  
 <211> 44  
 <212> PRT  
 <213> Homo sapiens

<400> 2702  
 Met Asp Thr Trp Ile Phe Leu Leu Val Thr Lys Ile Phe Lys Leu Phe  
           1                  5                          10                          15  
 Val Tyr Thr His Thr His Thr His Thr His Thr His Val Ser Val Pro  
                   20                          25                          30  
 Arg Asn Val Tyr Arg Gly Gly Gln Phe Ser Glu Asp  
           35                          40

<210> 2703  
 <211> 34  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (28)  
 <223> Xaa equals any of the naturally occurring L-amino acids

00550003.054204

<400> 2703

Met Ile Ile Trp Phe Leu Pro Phe Thr Leu Leu Val Trp Phe Ile Thr  
1 5 10 15

Phe Ile Asp Leu Phe Met Leu Asn His Pro Cys Xaa Pro Gly Ile Asn  
20 25 30

Leu Thr

<210> 2704

<211> 5

<212> PRT

<213> Homo sapiens

<400> 2704

His Ala Cys Phe Leu  
1 5

<210> 2705

<211> 32

<212> PRT

<213> Homo sapiens

<400> 2705

Met Phe Cys Gly Ala Cys Gln Ile Gly Trp Asn Leu Trp Gly Leu Leu  
1 5 10 15

Trp Glu Met Pro Arg Glu His Arg Phe Arg Arg Trp Glu Gln Leu Val  
20 25 30

<210> 2706

<211> 23

<212> PRT

<213> Homo sapiens

<400> 2706

Met Ser Val Gln Arg Trp Ala Leu Lys Leu Thr Leu Ile Leu Leu Val  
1 5 10 15

Glu Lys Ser Leu Lys Ala Ile  
20

<210> 2707

<211> 39

<212> PRT

<213> Homo sapiens

<220>

<221> SITE  
 <222> (19)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <400> 2707  
 Met Leu Asn Asn Phe Leu Gly Ile Asn Leu Gln Ala Trp Thr Ser Arg  
   1                  5                  10                  15  
  
 Leu Ser Xaa Gln Phe Leu Leu Thr Phe Ala Thr Tyr Cys Tyr Ala Asn  
           20                  25                  30  
  
 Phe Gln Lys Asn Cys Thr Gln  
           35

<210> 2708  
 <211> 1  
 <212> PRT  
 <213> Homo sapiens

<400> 2708  
 Met  
   1

<210> 2709  
 <211> 49  
 <212> PRT  
 <213> Homo sapiens

<400> 2709  
 Met Ala Pro Lys Phe Phe Val Ser Thr Gly Ile Ser Pro Met Ala Pro  
   1                  5                  10                  15  
  
 Ile Ala Thr Ala Lys Pro Thr Ala Pro Pro Val Leu Pro Ala Ser Leu  
           20                  25                  30  
  
 Pro Asp Arg Arg Cys Leu Gln Ser His Thr Gln Ser Ser Gly His Leu  
           35                  40                  45  
  
 Pro

<210> 2710  
 <211> 72  
 <212> PRT  
 <213> Homo sapiens

<400> 2710  
 Met Trp Met Ser Leu Val Leu His His Ser Leu Pro Leu Gly Val Thr  
   1                  5                  10                  15  
  
 Val Ala Leu His Cys Ala Cys Phe Val Ala Lys Asn Ser Gly Ile Pro  
           20                  25                  30  
  
 Ser Gly Glu Arg Ser Cys Phe Gln Gly Asn Arg Gln Ala Gly Ser Glu  
           35                  40                  45

09550003.091204

Val Gln Glu Lys Ala Thr Glu Ala Trp Lys Gly Ser Ser Cys Ile Cys  
50 55 60

Ala Ser Cys Ala Arg Arg Thr Leu  
65 70

<210> 2711  
<211> 35  
<212> PRT  
<213> Homo sapiens

<400> 2711  
Met Lys Thr Gln Asn His Cys Ile Phe Cys Ile Val Ile Leu Phe Ser  
1 5 10 15

Thr Ser Val Pro Pro Leu Ile Trp Ser Trp Gln Cys Val Ser Val His  
20 25 30

Ser Leu Phe  
35

<210> 2712  
<211> 34  
<212> PRT  
<213> Homo sapiens

<400> 2712  
Met Leu Lys Val Cys Val Cys Val Cys Val Cys Val Cys Val Cys Val  
1 5 10 15

Ser Tyr Pro Leu Lys Lys Gly Leu Tyr Asn Lys Ser Ala Ser His Trp  
20 25 30

Leu Leu

<210> 2713  
<211> 5  
<212> PRT  
<213> Homo sapiens

<400> 2713  
Met Asn Gly Leu Leu  
1 5

<210> 2714  
<211> 39  
<212> PRT  
<213> Homo sapiens

<400> 2714  
Met Arg Ser Ser Gly Ala Trp Gln Ala Met Val Gly Val Trp Ile Leu

1                      5                      10                      15

Phe Leu Ser Ala Val Glu Ser Gln Gly Arg Val Leu Ala Glu Gln Arg  
                     20                      25                      30

Cys Asn Leu Ala Trp Ala Leu  
                     35

<210> 2715  
 <211> 26  
 <212> PRT  
 <213> Homo sapiens

<400> 2715  
 Met Tyr Cys Ile Ser Trp Glu Val Tyr Phe Met Ser Phe Leu Ala Phe  
   1                      5                      10                      15

Phe Phe Pro Thr Ala Thr Ala Asn Glu Gly  
                     20                      25

<210> 2716  
 <211> 25  
 <212> PRT  
 <213> Homo sapiens

<400> 2716  
 Met Ser Leu Phe Phe Ile Trp Gln Leu Thr Lys Leu Leu Lys Ala Gln  
   1                      5                      10                      15

Pro Asn Cys Thr Phe Ala Arg Thr Phe  
                     20                      25

<210> 2717  
 <211> 92  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (77)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 2717  
 Met Ala Val Leu Ala Gly Ser Leu Leu Gly Pro Thr Ser Arg Ser Ala  
   1                      5                      10                      15

Ala Leu Leu Gly Gly Arg Trp Leu Gln Pro Arg Ala Trp Leu Gly Phe  
                     20                      25                      30

Pro Asp Ala Trp Gly Leu Pro Thr Pro Gln Gln Ala Arg Gly Lys Ala  
                     35                      40                      45

Arg Gly Asn Glu Tyr Gln Pro Ser Asn Ile Lys Arg Lys Asn Lys His  
                     50                      55                      60





<400> 2721  
Met Pro Leu Gly Leu Pro Leu Ser Ala Ser Gly Phe Ser Val Gly Asp  
1 5 10 15

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<210> 2722
<211> 66
<212> PRT
<213> Homo sapiens
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Ala Gly Cys Asp Ser Asp Gln Leu Asn Phe Leu Tyr Tyr Val Ile Ser  
20 25 30

Phe Lys Phe Tyr Phe Ser Thr Asp Ile Ser Asn Ser Ser Val Asn Val  
50 55 60

```
<210> 2723
<211> 39
<212> PRT
<213> Homo sapiens
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Thr Lys Tyr Gly Arg Ser Gly Ile Arg Trp Lys Lys Glu Gly Ser Ser  
20 25 30

```
<210> 2724
<211> 34
<212> PRT
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<213> Homo sapiens

<400> 2724

Met Trp Arg Trp Lys Ala Val Thr Leu Met Ile Leu Thr Leu Ser Arg  
1 5 10 15

Ser Arg Leu Met Cys Ala Phe Val Ser Trp Phe Leu Thr Lys Lys Phe  
20 25 30

Lys Arg

<210> 2725

<211> 52

<212> PRT

<213> Homo sapiens

<400> 2725

Met Thr Ala Ser Pro Asp Tyr Leu Val Val Leu Phe Gly Ile Thr Ala  
1 5 10 15

Gly Ala Thr Gly Ala Lys Leu Gly Ser Asp Glu Lys Glu Leu Ile Leu  
20 25 30

Leu Phe Trp Lys Val Val Asp Leu Ala Asn Lys Lys Val Gly Gln Leu  
35 40 45

His Glu Ser Ser  
50

<210> 2726

<211> 45

<212> PRT

<213> Homo sapiens

<400> 2726

Met Arg Ala Ala Val Gln Thr Cys Leu Pro Ser Gln Ala Leu Ala Ser  
1 5 10 15

Leu Thr Trp Gln Arg Leu Cys Pro Gly Leu Ser Pro Pro Arg Ala Met  
20 25 30

Ser Leu Met Ala Val Leu Thr Glu Arg Ser Gln Ile Val  
35 40 45

<210> 2727

<211> 35

<212> PRT

<213> Homo sapiens

<400> 2727

Met Leu Phe Met Ala His Leu Leu Leu Arg Thr His Pro Leu Ser Leu  
1 5 10 15

Trp Val Thr Ser Arg Gln Ala Lys Asp Trp Cys Phe Ser Phe His Pro

30

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<400> 2730
Met Thr Gly Val Gln Val Gln Trp Thr Val Ile Phe Leu Ala Pro Val
  1             5             10             15

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Ile Ala Val Ile Leu Cys Ala Met Gln Thr Met Leu Arg Ser Leu Trp  
 20 25 30  
 Leu Met Asp Leu Thr Leu Thr Val Ser Gln Val Val Glu Glu Arg Lys  
 35 40 45  
 Gln Met Lys Gly Lys Lys Lys His Gly Ile Gln Gln Lys Lys Thr Leu  
 50 55 60  
 Glu Leu Ile Val Asn Met Met Xaa Val Ala Arg Val Gly Glu Lys Cys  
 65 70 75 80  
 Ser Thr Cys Ile Ser Lys Leu Asn Leu Met Leu Gln Met Lys Val Leu  
 85 90 95  
 Gly Lys Asp Ile Asn Gly  
 100

<210> 2731  
 <211> 36  
 <212> PRT  
 <213> Homo sapiens  
 <220>  
 <221> SITE  
 <222> (16)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
 <400> 2731  
 Met Ser His Cys Trp Thr Leu Leu Ala Leu Ser Leu Trp Gly Leu Xaa  
 1 5 10 15  
 Val Ser Gln Gly Arg Glu Thr Trp Trp Arg Trp Pro His Gly Leu Gly  
 20 25 30  
 Pro Pro Cys Ser  
 35

<210> 2732  
 <211> 44  
 <212> PRT  
 <213> Homo sapiens  
 <400> 2732  
 Leu Ile Gly Val Phe Pro Pro His Leu Leu Ser Ser Leu Lys Cys Val  
 1 5 10 15  
 Pro Asp Ala Phe Ile Cys Cys Phe Thr Ser Met Phe Cys Phe Ser Ser  
 20 25 30  
 Ser Leu Cys Ser Leu Pro Val Tyr Pro Leu Ser Leu  
 35 40

<210> 2733  
 <211> 10



005003.091201

1 5 10 15  
Pro Ser Thr Ala Ser Cys Leu Ile Thr Pro Leu Pro Pro Pro His Pro  
20 25 30  
Gln Pro Ser Gln Phe Phe Leu Ala Ser Ala Leu Gln Pro Tyr Leu Gly  
35 40 45  
Lys Glu Glu Trp Val  
50

<210> 2738  
<211> 37  
<212> PRT  
<213> Homo sapiens

<400> 2738  
Met Leu Gln Met Cys Ile Tyr Ala Gln Trp Tyr Ala Tyr Leu Cys Val  
1 5 10 15  
Thr Val Ser Val Ala Ser Trp Leu Asp Pro Thr Ile Ser Ser Glu Ile  
20 25 30  
Met His Pro Lys Gly  
35

<210> 2739  
<211> 17  
<212> PRT  
<213> Homo sapiens

<400> 2739  
Met Leu Phe Phe Cys Gln Ala Leu Phe Val Leu Ala Val Tyr Tyr Ile  
1 5 10 15  
Phe

<210> 2740  
<211> 38  
<212> PRT  
<213> Homo sapiens

<400> 2740  
Met Arg Thr Ala Leu Phe Pro Thr Glu Cys Cys Leu Pro Met Cys Val  
1 5 10 15  
Val Leu Ala Val Phe Tyr Leu Pro Ile Val Phe Ser Arg Ile Ile Glu  
20 25 30  
Ser Ala Asp Ser Phe Asp  
35





<400> 2744

Ala Val Val Pro Thr Trp Cys Ser Thr Val Leu Leu Thr Phe Val Pro  
1 5 10 15

Thr Ala Arg Leu Val Ala Gly Leu Glu Asp Val Gln Val Tyr Asp Gly  
20 25 30

Glu Asp Ala Val Phe Ser Leu Asp Leu Ser Thr Ile Ile Gln Gly Thr  
35 40 45

Trp Phe Pro  
50

<210> 2745

<211> 10

<212> PRT

<213> Homo sapiens

<400> 2745

Met His Leu Ile Thr Val Leu Leu Asn Val  
1 5 10

<210> 2746

<211> 25

<212> PRT

<213> Homo sapiens

<400> 2746

Met Phe Cys Leu Ser Phe Pro Ile Ser Gly Ala Tyr Leu Leu Ile Pro  
1 5 10 15

Ala Tyr Phe Leu Glu Val Val Gly Lys  
20 25

<210> 2747

<211> 97

<212> PRT

<213> Homo sapiens

<400> 2747

Met Glu Val Val Val Thr Val Thr Pro Lys Thr Cys Pro Leu Ser Ser  
1 5 10 15

Leu Leu Leu Phe Leu Leu Tyr Phe Leu Val Ile Gly Ser Val Ile His  
20 25 30

Leu Thr Ala Gly Phe Arg Ile Leu Val Leu Gly Leu Val Phe Leu Phe  
35 40 45

Phe Pro Tyr Pro Pro Tyr Pro Asn Cys His Gln Val Leu Leu His Ala  
50 55 60

Leu Met Ile Ser His Leu Ser Tyr Pro Ser Ser Phe Gln Ile Gly Pro  
65 70 75 80

Ser Asp Phe Asn Leu Gly His Ser His Tyr Leu Leu Tyr Tyr Gly Lys  
85 90 95

Ile

<210> 2748  
<211> 334  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (290)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (316)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (321)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2748  
Met Leu Phe Gly Ser Ile Phe Arg Cys Leu Asp Pro Ala Leu Thr Ile  
1 5 10 15

Ala Ala Ser Leu Ala Phe Lys Ser Pro Phe Val Ser Pro Trp Asp Lys  
20 25 30

Lys Glu Glu Ala Asn Gln Lys Lys Leu Glu Phe Ala Phe Ala Asn Ser  
35 40 45

Asp Tyr Leu Ala Leu Leu Gln Ala Tyr Lys Gly Trp Gln Leu Ser Thr  
50 55 60

Lys Glu Gly Val Arg Ala Ser Tyr Asn Tyr Cys Arg Gln Asn Phe Leu  
65 70 75 80

Ser Gly Arg Val Leu Gln Glu Met Ala Ser Leu Lys Arg Gln Phe Thr  
85 90 95

Glu Leu Leu Ser Asp Ile Gly Phe Ala Arg Glu Gly Leu Arg Ala Arg  
100 105 110

Glu Ile Glu Lys Arg Ala Gln Gly Gly Asp Gly Val Leu Asp Ala Thr  
115 120 125

Gly Glu Glu Ala Asn Ser Asn Ala Glu Asn Pro Lys Leu Ile Ser Ala  
130 135 140

Met Leu Cys Ala Ala Leu Tyr Pro Asn Val Val Gln Val Lys Ser Pro  
145 150 155 160

Glu Gly Lys Phe Gln Lys Thr Ser Thr Gly Ala Val Arg Met Gln Pro

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165

170

175

Lys Ser Ala Glu Leu Lys Phe Val Thr Lys Asn Asp Gly Tyr Val His  
180 185 190

Ile His Pro Ser Ser Val Asn Tyr Gln Val Arg His Phe Asp Ser Pro  
195 200 205

Tyr Leu Leu Tyr His Glu Lys Ile Lys Thr Ser Arg Val Phe Ile Arg  
210 215 220

Asp Cys Ser Met Val Ser Val Tyr Pro Leu Val Leu Phe Gly Gly Gly  
225 230 235 240

Gln Val Asn Val Gln Leu Gln Arg Gly Glu Phe Val Val Ser Leu Asp  
245 250 255

Asp Gly Trp Ile Arg Phe Val Ala Ala Ser His Gln Val Ala Glu Leu  
260 265 270

Val Lys Glu Leu Arg Cys Glu Leu Asp Gln Leu Leu Gln Asp Lys Ile  
275 280 285

Lys Xaa Pro Ser Ile Asp Leu Cys Thr Cys Pro Arg Gly Ser Arg Ile  
290 295 300

Ile Ser Thr Ile Val Lys Leu Val Thr Thr Gln Xaa Lys Ala Val Leu  
305 310 315 320

Xaa Ser Ala Cys Tyr Ser Pro Ala Ser Ser Ser Pro Gly Lys  
325 330

<210> 2749

<211> 33

<212> PRT

<213> Homo sapiens

<400> 2749

Met Gly Leu Leu Trp Asn Leu Ile Ala Thr Tyr Phe Cys Phe Pro Leu  
1 5 10 15

Asp Ala Ala Ser Thr His Val Asp Tyr Glu Val Leu Thr His Pro Arg  
20 25 30

Ser

<210> 2750

<211> 50

<212> PRT

<213> Homo sapiens

<400> 2750

Met Leu Pro Pro Pro Ser Leu Leu Phe Ile Phe Ser Ala Phe Cys Leu  
1 5 10 15

Ala Ser Leu Pro Pro Cys Phe Ser Gly Trp Glu Leu Leu Val Thr Pro

20

25

30

Leu Ser Asp Cys Leu Val Ala Gly Thr Leu Pro Val Arg Ala Thr Phe  
35 40 45

Leu Phe  
50

<210> 2751  
<211> 38  
<212> PRT  
<213> Homo sapiens

<400> 2751  
Met Tyr Leu Lys Tyr Cys Tyr Val Ile Leu Gly Tyr Leu Phe Ile Phe  
1 5 10 15

Glu Ile Phe Val Tyr Ile Ala Phe Leu Asn Leu Ala Asn Asn Met Cys  
20 25 30

Lys Gly Ile Asn Gln Lys  
35

<210> 2752  
<211> 5  
<212> PRT  
<213> Homo sapiens

<400> 2752  
Ile Val Gly Phe Asn  
1 5

<210> 2753  
<211> 30  
<212> PRT  
<213> Homo sapiens

<400> 2753  
Met Leu Gln Phe Ser Cys Leu Ser Ile Ser His Val Leu Ile Leu Leu  
1 5 10 15

Ile Thr Phe Phe Ala Cys Val Val Leu Ala Pro Phe Gln Lys  
20 25 30

<210> 2754  
<211> 29  
<212> PRT  
<213> Homo sapiens

<400> 2754  
Met Phe Phe Ser Cys Leu Phe Leu Phe Gly Leu Tyr Ser Gly Cys Leu  
1 5 10 15

Phe Leu Phe Val Lys Arg Lys Gln Cys Thr Glu Lys Gln  
 20 25

<210> 2755  
 <211> 45  
 <212> PRT  
 <213> Homo sapiens

<400> 2755  
 Met Glu Leu Asn Ile Ala Trp Met Thr Glu Lys Leu Trp Lys Glu Met  
 1 5 10 15

Glu Asp Phe Leu Asn Phe Ser Leu Val Leu Phe Val Met Lys Leu Lys  
 20 25 30

Leu Pro Ala Pro Glu Lys Val Phe Gln Tyr Leu Leu Cys  
 35 40 45

<210> 2756  
 <211> 38  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (25)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 2756  
 Met Gln Thr Cys Leu Leu Trp Asn Leu Lys Thr Leu Leu Val Val Arg  
 1 5 10 15

Leu Leu Pro Gly Ile Pro Gly Leu Xaa Gly Phe Tyr Phe Asp Ser Lys  
 20 25 30

Gln Lys Gln Met Leu Cys  
 35

<210> 2757  
 <211> 38  
 <212> PRT  
 <213> Homo sapiens

<400> 2757  
 Met Val Cys Ser Ile Leu Ser Phe Ser Ile Leu Pro Phe Trp Glu Asp  
 1 5 10 15

Phe Gly Ile Ser Phe Leu Phe Phe Leu Phe Phe Leu Arg Glu Trp Gln  
 20 25 30

Ile Val Phe Ser Gln Val  
 35

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<210> 2758  
<211> 52  
<212> PRT  
<213> Homo sapiens

<400> 2758  
Met Cys Val Val Asn Ile Leu Trp Phe Ser Ala Phe Thr Ser Met Arg  
1 5 10 15  
Val Ala Ser Asp Pro Ala Arg Leu Thr Gly Leu Pro Lys Pro Ser Leu  
20 25 30  
Ala Ser Ser Thr Tyr Ile Ser Leu Cys Cys Ser Thr Ser Lys Gln Thr  
35 40 45  
Lys Ile Gly Val  
50

<210> 2759  
<211> 31  
<212> PRT  
<213> Homo sapiens

<400> 2759  
Met Phe Met Leu Ala Ile Leu Leu Thr Phe Phe His Pro Phe Leu Val  
1 5 10 15  
Tyr Arg Glu Cys Arg Thr Trp Lys Glu Ser Pro Ser Ala Ile Ala  
20 25 30

<210> 2760  
<211> 15  
<212> PRT  
<213> Homo sapiens

<400> 2760  
Tyr Ile Phe Val Trp Ile Ser Ser Val Tyr Val Gln Tyr Phe Val  
1 5 10 15

<210> 2761  
<211> 40  
<212> PRT  
<213> Homo sapiens

<400> 2761  
Met Met Phe Val Ile Leu Asn Ala Leu Val Leu Gly His Leu Leu Ile  
1 5 10 15  
Phe Leu Gln Val His Phe Leu Val His Glu Val Ser Phe Val Ile Asn  
20 25 30  
Val Cys His Met Phe Ile Pro Ile  
35 40

<210> 2762  
<211> 45  
<212> PRT  
<213> Homo sapiens

<400> 2762  
Gly Met Ala Val Leu Val Glu Lys Ser Val Val Leu Val Ile Trp Leu  
1 5 10 15  
Gly Pro Val Ala Gln Ala Gly Ser Asn Trp Phe Ala Val Ser Ser Leu  
20 25 30  
Gln Glu Tyr Leu Lys Gln Gly Asp Ser Ser Ser Leu Leu  
35 40 45

<210> 2763  
<211> 46  
<212> PRT  
<213> Homo sapiens

<400> 2763  
Met Phe Pro Cys Lys Leu Val Val Gln Tyr Gln Leu Leu Pro Ile Phe  
1 5 10 15  
Ile Leu Lys Arg Pro Leu Gln Ile Ser Val Arg Val Phe Pro Val Ile  
20 25 30  
Thr His Ser Thr Leu Leu Lys Phe Ala Ile Ser Ser Ala Ile  
35 40 45

<210> 2764  
<211> 31  
<212> PRT  
<213> Homo sapiens

<400> 2764  
Met Thr Phe Val Ile Tyr Tyr Thr His Trp Phe Leu Leu Ile Ile Val  
1 5 10 15  
Leu Ser Asp Phe Leu Phe Ser Thr Met Val Pro Leu Ala Glu Lys  
20 25 30

<210> 2765  
<211> 2  
<212> PRT  
<213> Homo sapiens

<400> 2765  
Lys Trp  
1

<210> 2766

<211> 33  
<212> PRT  
<213> Homo sapiens

<400> 2766  
Met Glu Lys Leu Asp Trp Ala Tyr Ser Gln His Ser Val Ile Cys Lys  
1 5 10 15  
Cys Ile Ser Leu Leu Cys Arg Val Phe Leu Leu Gly Val Asn Phe Asp  
20 25 30  
Ser

<210> 2767  
<211> 32  
<212> PRT  
<213> Homo sapiens

<400> 2767  
Met Leu Thr Gly Thr Leu Phe Pro Gly Phe His Val Arg Leu Trp Ala  
1 5 10 15  
Leu Ser Pro Ala Gln Ala Gln Glu Cys Leu Val Gly Gly Glu Trp Ser  
20 25 30

<210> 2768  
<211> 20  
<212> PRT  
<213> Homo sapiens

<400> 2768  
Met Cys Gly Cys Thr Thr Phe Phe Cys Asp Tyr Met Gly Ser Phe Glu  
1 5 10 15  
Arg Ile Tyr Leu  
20

<210> 2769  
<211> 46  
<212> PRT  
<213> Homo sapiens

<400> 2769  
Met Ile Phe Leu Gly Leu His Thr Phe Ala Leu Phe Ser Glu Pro Cys  
1 5 10 15  
Pro Leu Asn Val Thr Leu Leu Pro Phe Ser Thr Val Cys Val Pro Thr  
20 25 30  
Val Gln Gly Leu Pro Gly Thr Ala His Arg Leu Met Ala Cys  
35 40 45



0050003.001004

<210> 2770  
<211> 37  
<212> PRT  
<213> Homo sapiens

<400> 2770  
Met Tyr Cys Lys Gln Ser Cys Val Leu Ile Leu Phe Ser Leu Phe Glu  
1 5 10 15  
Cys Ile Ile Ile Leu Ile Ile Pro Lys Thr Leu Thr Thr Gln Gly Thr  
20 25 30  
Ala Val Gln Tyr Tyr  
35

<210> 2771  
<211> 28  
<212> PRT  
<213> Homo sapiens

<400> 2771  
Met His Leu Pro Gln Leu Pro Leu Gln Ser His His Tyr Cys Arg Leu  
1 5 10 15  
Ala Leu Arg Val Ser Phe Gln Val Phe Trp His Val  
20 25

<210> 2772  
<211> 32  
<212> PRT  
<213> Homo sapiens

<400> 2772  
Lys Met Asn Leu Phe Val Leu Val Gly Ala Ile Ser Phe Ile Phe Arg  
1 5 10 15  
Thr Thr Glu Cys Ala Phe Ile Asn Arg Met Lys Ala His Ala Glu Asp  
20 25 30

<210> 2773  
<211> 41  
<212> PRT  
<213> Homo sapiens

<400> 2773  
Met Gly His Leu Lys Ser Cys Met Asn His Asn Leu Leu Trp Tyr Leu  
1 5 10 15  
Cys Thr Cys Leu Ile Leu Tyr Ser Leu Phe Gln Cys Gly Ile Cys Ala

20

25

30

Pro Leu Tyr Leu Leu Arg Ser Ala Glu  
 35 40

&lt;210&gt; 2774

&lt;211&gt; 82

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2774

Leu Pro Val Glu Glu Pro Asn Pro Ala Lys Arg Leu Leu Phe Leu Leu  
 1 5 10 15

Leu Thr Ile Val Phe Cys Gln Ile Leu Met Ala Glu Glu Gly Val Pro  
 20 25 30

Ala Pro Leu Pro Pro Glu Asp Ala Pro Asn Ala Ala Ser Leu Ala Pro  
 35 40 45

Thr Pro Val Ser Pro Val Leu Glu Pro Phe Asn Leu Thr Ser Glu Pro  
 50 55 60

Ser Asp Tyr Ala Leu Asp Leu Ser Thr Phe Leu Gln Gln His Pro Ala  
 65 70 75 80

Ala Phe

&lt;210&gt; 2775

&lt;211&gt; 39

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2775

Met Ala Leu Leu Leu His Leu Thr Gly Leu Lys Cys Trp Gly His Leu  
 1 5 10 15

Trp Leu Leu Cys Ile Thr Val His Thr Gln Val Glu Pro Val Cys Ser  
 20 25 30

Phe Pro Phe Asp Met Phe Phe  
 35

&lt;210&gt; 2776

&lt;211&gt; 45

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2776

Met Met Leu Leu Leu Trp Pro Gly Leu Gln Trp Lys Cys Thr Gly  
 1 5 10 15

Thr Pro Asn Val Val Asn Ala Leu Ser Ser Ile Cys Ser Gly Ile Leu  
 20 25 30

Arg Val Gly Leu Trp Phe His Ala Leu Ala Val Cys Lys  
 35 40 45

<210> 2777  
 <211> 1  
 <212> PRT  
 <213> Homo sapiens

<400> 2777  
 Ser  
 1

<210> 2778  
 <211> 30  
 <212> PRT  
 <213> Homo sapiens

<400> 2778  
 Met Arg Lys Tyr Leu Met Gly Thr Val Tyr Thr Phe Leu Val Leu Val  
 1 5 10 15

Ala Gly Lys Ala Trp Thr Ser Pro Leu Arg Asn Ile Ser Val  
 20 25 30

<210> 2779  
 <211> 47  
 <212> PRT  
 <213> Homo sapiens

<400> 2779  
 Met His Glu Thr Cys Phe Tyr Phe Ala Ala Leu Val Leu Leu Val Leu  
 1 5 10 15

Leu Arg Lys Glu Lys Glu Gly Arg Glu Phe Met Val Arg Arg Phe Leu  
 20 25 30

Val Arg Arg Phe Ile Val Arg Arg Ser Arg Leu Gly His Lys Lys  
 35 40 45

<210> 2780  
 <211> 10  
 <212> PRT  
 <213> Homo sapiens

<400> 2780  
 His Ala Gly Arg Tyr Cys Val Ile Arg Ala  
 1 5 10

<210> 2781  
 <211> 41

<212> PRT  
<213> Homo sapiens

<400> 2781  
Leu Cys Thr Leu Ser Thr Ile Leu Cys Leu Phe Ser Ile Cys Leu Phe  
1 5 10 15  
Leu Pro Ile Ser Leu Pro Leu Arg Lys Lys Ile Gly Val Thr Phe Val  
20 25 30  
Lys Val Ile Leu Ile Val Asn His Leu  
35 40

<210> 2782  
<211> 11  
<212> PRT  
<213> Homo sapiens

<400> 2782  
Leu Leu Phe Ala Ser Phe Leu Cys Lys Ile Leu  
1 5 10

<210> 2783  
<211> 63  
<212> PRT  
<213> Homo sapiens

<400> 2783  
Met Phe Ile Ser Trp Phe Ile Leu Phe Arg Leu Tyr Pro Leu Ser Ser  
1 5 10 15  
Pro Phe Phe Ser Gln Asn Val Leu Lys Gln Ile Ser Asp Ile Leu Ser  
20 25 30  
Pro Tyr Tyr Phe Ile Gln Lys Tyr Phe Ser Ile Pro Glu Arg Tyr Ser  
35 40 45  
Ser Ser Lys Lys Lys Thr Thr Ile Pro Leu Ser His Leu Lys Ser  
50 55 60

<210> 2784  
<211> 59  
<212> PRT  
<213> Homo sapiens

<400> 2784  
Met His Arg Trp Lys Ala Phe Phe Pro Gly Pro Tyr Pro Ser Leu His  
1 5 10 15  
Asn Thr Pro Val Thr Pro His His Gly Leu Leu Ser Asp Pro His Gly  
20 25 30  
Ile Pro Val Ala Leu Cys Ser His Thr Ala Phe Leu Ile Cys Pro Pro  
35 40 45

Cys Leu Ser Leu Thr His Ile Leu Phe Gln Gly  
50 55

<210> 2785  
<211> 10  
<212> PRT  
<213> Homo sapiens

<400> 2785  
Met Gly Cys Trp Leu Leu Pro Cys Phe Leu  
1 5 10

<210> 2786  
<211> 39  
<212> PRT  
<213> Homo sapiens

<400> 2786  
Met Pro Ala His Leu Cys Leu Leu Pro Leu Leu Leu Cys Pro Ser Tyr  
1 5 10 15

Ser Gln Asn Leu Tyr Leu Leu Ser Asn Leu His Phe Val Leu Val Pro  
20 25 30

Leu Pro Phe Pro Ile Lys Glu  
35

<210> 2787  
<211> 34  
<212> PRT  
<213> Homo sapiens

<400> 2787  
Met Met Pro Pro Thr Gly Ser Gly Leu Glu Asn Ile Glu Gly Gly Leu  
1 5 10 15

Lys Val Leu Val Val Glu Ala Leu Val Gly Gln Gly Arg Pro Leu Arg  
20 25 30

Ile Trp

<210> 2788  
<211> 31  
<212> PRT  
<213> Homo sapiens

<400> 2788  
Met Thr Pro Gly Ser Arg Val Met Gly Thr Cys Trp Gly Phe Cys Phe  
1 5 10 15

Phe Phe Phe Thr Gly Trp Leu Asp Pro Gln Trp Gln Lys Asp Pro  
20 25 30

<210> 2789  
 <211> 46  
 <212> PRT  
 <213> Homo sapiens

<400> 2789  
 Met Lys Leu Leu Arg Ser Ala Ala Lys Leu Met Val Leu Ile Ser Thr  
 1 5 10 15  
 Gln Thr Ser Tyr Ala Phe Gly Glu Gln Cys Thr His Leu Thr Leu Phe  
 20 25 30  
 Leu Ile Asn Ser Asn Ser Gly Lys Ile Pro Leu Thr Tyr Phe  
 35 40 45

<210> 2790  
 <211> 36  
 <212> PRT  
 <213> Homo sapiens

<400> 2790  
 Met Thr Gly Thr Pro Ala Trp Ala His Leu Leu Leu Leu Leu Leu  
 1 5 10 15  
 Gly Ser Ala Pro Gln Thr Arg Leu Trp Pro Pro Ser Gln Cys Pro Val  
 20 25 30  
 Thr Ser Pro Glu  
 35

<210> 2791  
 <211> 55  
 <212> PRT  
 <213> Homo sapiens

<400> 2791  
 Met Gly Gly Ile Leu Leu Ala Leu Ile Glu Gly Val Gly Ile Leu Leu  
 1 5 10 15  
 Thr Arg Tyr Thr Ala Gln Gln Phe Arg Asn Ala Pro Pro Phe Leu Glu  
 20 25 30  
 Asp Pro Ser Gln Leu Pro Pro Lys Asp Gly Thr Pro Ala Pro Gly Tyr  
 35 40 45  
 Pro Ser Tyr Gln Gln Tyr His  
 50 55

<210> 2792  
 <211> 7  
 <212> PRT  
 <213> Homo sapiens

055003.04304

<400> 2792  
Met Pro Ile Trp Ala Phe Val  
1 5

<210> 2793  
<211> 37  
<212> PRT  
<213> Homo sapiens

<400> 2793  
Met Arg Lys Glu Phe Phe Leu Ile Leu Pro Leu Asp Phe Leu Phe Phe  
1 5 10 15  
Leu Leu Gln Val Ser Glu Arg Pro Arg Ser Leu Pro Leu Ser Pro Glu  
20 25 30  
Leu Glu Ser Ser Pro  
35

<210> 2794  
<211> 113  
<212> PRT  
<213> Homo sapiens

<400> 2794  
Ser Ala Cys Asp Thr Gly Leu Ala Val Leu Leu Thr Val Phe Cys Ala  
1 5 10 15  
Cys Val Leu Pro Pro Phe Pro Pro Ala Ala Glu Thr Arg Pro Ser  
20 25 30  
Phe His Thr Gln Ile Ser Cys Pro Val Leu Thr Pro Pro Cys His His  
35 40 45  
Gln Pro Cys Leu Glu Pro Pro Ala Leu Trp Gln Gln Asn Gln Thr Phe  
50 55 60  
Leu Trp Ala Phe Lys Met Val Leu Cys Pro Pro Val Arg Ser Cys Val  
65 70 75 80  
Leu Ser Pro Lys Gly His Ala Lys Asp Trp Leu Trp Glu Ala Leu Ile  
85 90 95  
Thr Asn Pro Ser Thr Ser Ser Leu Pro Gln Ala Gly Ser Asn Lys Cys  
100 105 110  
Ile

<210> 2795  
<211> 38  
<212> PRT  
<213> Homo sapiens

00050000.004004

<400> 2795

Met Gln Leu Arg Gly Leu Ser Leu Asn Pro Arg Leu Leu Leu Thr Leu  
1 5 10 15

Gly Ser Leu Cys Leu Gly Ser Ser Ala Pro Gly Phe Gly Arg Gln Gln  
20 25 30

Phe Pro Lys Asn Lys Met  
35

<210> 2796

<211> 162

<212> PRT

<213> Homo sapiens

<400> 2796

Met Leu Val Met Lys Trp Glu Glu Ser Ile Ile Trp His His Leu Val  
1 5 10 15

Leu Cys Ala Asn Ser Gly Leu Ser Ile Leu Leu Ile Leu Pro Cys Lys  
20 25 30

Val Asn Asn Tyr Tyr Pro His Phe Ala Val Glu Lys Thr Glu Tyr Ser  
35 40 45

Asp Thr Thr Leu Thr Phe Leu Gly Ser Lys Lys Leu Ser Val Ser Leu  
50 55 60

Gly Phe Glu Leu Gln Val Asn Leu Ile Leu Lys His Val Leu Leu Ser  
65 70 75 80

Ile Arg Thr Val Val Leu Leu Thr Gly His Gly Ala His Ala Cys Asn  
85 90 95

Ser Ser Thr Leu Gly Ser Gln Gly Trp Gln Ile Thr Trp Thr Gln Glu  
100 105 110

Phe Glu Thr Ser Pro Gly Ser Met Ala Lys Pro His Leu Asn Arg Lys  
115 120 125

Tyr Leu Lys Val Arg Gln Val Trp Trp His Ala Pro Val Val Pro Ala  
130 135 140

Thr Arg Glu Ala Glu Val Lys Gly Leu Leu Glu Pro Ala Arg Trp Arg  
145 150 155 160

Leu His

<210> 2797

<211> 18

<212> PRT

<213> Homo sapiens

<400> 2797

Met Thr Cys Leu Leu Ser Gly Cys Leu Phe Cys Ser Arg Glu Gly Ser  
1 5 10 15



[illegible]

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<400> 2798
Met Ile Phe Leu Leu Ile Val Asn Tyr Leu Ser Phe Ile Asp Tyr Gly
  1             5             10             15

Arg Asp Leu Gln Asn Gly Ile His Val Gln Trp Cys Gly Glu
      20             25             30

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<400> 2799  
Glu Ser Ala Pro Pro Trp Leu Pro Ile Cys Pro Thr Arg Ser Leu Gly  
    1              5            10             15  
  
Leu Leu Val Gln Leu Leu Ala Leu Ala Gly Ser Cys Ser Ala Gly Pro  
          20                25           30  
  
Arg Ala Leu Gly Gln Ala Ser Gly Val Val Arg Thr Thr Lys Pro Leu  
        35            40         45  
  
Leu Ser Pro Ser Thr Pro Leu Asp Leu Gly Pro Pro Glu Pro Pro Ala  
   50               55           60  
  
Gly Trp Ala Tyr Thr Ser Ser  
   65       70
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<400> 2800
Met Thr Lys Ser Ser Ala Val Leu Phe Ile Leu Ile Phe Ser Leu Ile
  1             5             10             15

Phe Lys Leu Glu Glu Leu Arg Ala Ala Leu Val Leu Val Val Leu Leu
      20             25             30

Ile Ala Gly Gly Leu Phe Met Phe Thr Tyr Lys Ser Thr Gln Phe Asn
      35             40             45

Val Glu Gly Phe Ala Trp Cys Trp Gly Pro Arg Ser Ser Val Ala Phe
      50             55             60

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Leu

<210> 2808  
<211> 18  
<212> PRT  
<213> Homo sapiens

<400> 2808  
Glu Lys Val Thr Arg Phe His Asn Ala Phe Leu Phe Pro Asn His Trp  
1 5 10 15

Tyr Ser

<210> 2809  
<211> 20  
<212> PRT  
<213> Homo sapiens

<400> 2809  
Met Trp Trp Pro Ser Trp Met Thr Ser Ser Thr Gly Pro Ala Gly Val  
1 5 10 15

Leu Cys Gly Pro  
20

<210> 2810  
<211> 13  
<212> PRT  
<213> Homo sapiens

<400> 2810  
Glu Phe Arg Ala Gly Phe Leu Leu Leu Leu His Gly Met  
1 5 10

<210> 2811  
<211> 4  
<212> PRT  
<213> Homo sapiens

<400> 2811  
Met Asn Ser Pro  
1

<210> 2812  
<211> 39  
<212> PRT  
<213> Homo sapiens

<400> 2812

Met Leu Ser Phe Arg Ile Ile Ser Ser Phe Tyr Ile Ile Leu Val Phe  
 1 5 10 15

Cys Ser Tyr Val Leu Arg Ala His Thr Leu Leu Gly Ser Val Ser Pro  
 20 25 30

Arg Glu Lys Trp Tyr Glu Lys  
 35

<210> 2813  
 <211> 8  
 <212> PRT  
 <213> Homo sapiens

<400> 2813  
 Met Leu Phe Phe Lys Leu Ala Ile  
 1 5

<210> 2814  
 <211> 40  
 <212> PRT  
 <213> Homo sapiens

<400> 2814  
 Met Leu Ile Lys Lys Leu Trp Phe Leu Gln Asp Phe Val Phe Arg Asp  
 1 5 10 15  
 Ser Gly Lys Glu His Ile Asn Gln Lys Glu Glu Leu Thr Ser Ile Leu  
 20 25 30  
 Leu Val Leu Lys Ile Thr Asp Tyr  
 35 40

<210> 2815  
 <211> 62  
 <212> PRT  
 <213> Homo sapiens

<400> 2815  
 Met Ala Met Tyr Cys Gly Leu His Gly Leu Thr Val Leu Thr Lys Met  
 1 5 10 15  
 Leu Pro Gly Cys Met Ser Ala Trp Lys Lys Leu Ser Arg Asn Thr Trp  
 20 25 30  
 Val Lys Lys Ile Ser Thr Pro Arg Ser Ala Ser Ile Phe Met Ser Val  
 35 40 45  
 Arg Trp Ser Ala Arg Val Ala Arg Ser Val Thr Cys Thr Pro  
 50 55 60

<210> 2816  
 <211> 36

<212> PRT  
<213> Homo sapiens

<400> 2816  
Met Phe Asn Ser Leu Leu Ala Phe Phe Leu Ile Leu Trp Gly Cys Ile  
1 5 10 15  
Thr Ser Leu Lys Asp Ile Val Ile Ile Ser Tyr Lys Val Lys Ile Lys  
20 25 30  
Lys Asp Cys Val  
35

<210> 2817  
<211> 33  
<212> PRT  
<213> Homo sapiens  
<220>  
<221> SITE  
<222> (8)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2817  
Met Ala Leu Ile Leu Leu Leu Xaa Val Leu Met Glu Val Thr Leu Glu  
1 5 10 15  
Gly Lys Lys Lys Met Asp Gly Val His Met Glu Glu Met Val Gln Lys  
20 25 30  
Thr

<210> 2818  
<211> 26  
<212> PRT  
<213> Homo sapiens

<400> 2818  
Met Leu Val Leu Thr Phe Val Ser Val Tyr His Leu Asn Val Phe Met  
1 5 10 15  
Tyr Leu Met Val Phe Cys Gly Cys Phe Ser  
20 25

<210> 2819  
<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 2819  
Met Val Ser Ser Pro Gln Gly Leu Cys  
1 5

<210> 2820  
 <211> 17  
 <212> PRT  
 <213> Homo sapiens

<400> 2820  
 Tyr Cys Ile Phe Thr Phe Leu Ser Thr Ala Asp Val Thr Ile Tyr Gly  
           1                  5                  10                  15  
 Gln

<210> 2821  
 <211> 25  
 <212> PRT  
 <213> Homo sapiens

<400> 2821  
 Lys Leu Ile Trp Gln Val Leu Leu Val Phe Leu Ile Ile Ile Ile Leu  
           1                  5                  10                  15  
 Asn Pro Lys Tyr Ser Asn Phe Leu Asn  
                   20                  25

<210> 2822  
 <211> 18  
 <212> PRT  
 <213> Homo sapiens

<400> 2822  
 Met Thr Gly Leu His Met Thr Leu Leu Ile Ser Phe Ile Tyr Val Ser  
           1                  5                  10                  15  
 Thr Phe

<210> 2823  
 <211> 45  
 <212> PRT  
 <213> Homo sapiens

<400> 2823  
 Met Gly Phe Ile Gly Leu Met Val Ala Met Ile Phe Ile Met Leu Phe  
           1                  5                  10                  15  
 Gly Ser Trp Asp His Lys Asn Val Cys Leu Phe Leu Glu Tyr Leu Gly  
                   20                  25                  30  
 Ser Leu Lys Arg Lys Gly Ile Lys Lys Pro Leu His Leu  
           35                  40                  45

<210> 2824

<211> 7  
 <212> PRT  
 <213> Homo sapiens

<400> 2824  
 Met Thr Thr Leu Gln Gly Gly  
 1 5

<210> 2825  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<400> 2825  
 Lys Pro Leu Phe Leu His Leu Pro Leu Leu Thr Leu Gln Ala  
 1 5 10

<210> 2826  
 <211> 59  
 <212> PRT  
 <213> Homo sapiens

<400> 2826  
 Met Gly Leu Ser Val Leu Leu Pro Leu Cys Leu Leu Gly Pro Gly Arg  
 1 5 10 15  
 Phe Thr Ser Gly Gln Lys Pro Leu Asp Thr Pro Gly Leu Gly Ala Ala  
 20 25 30  
 Val Leu Ser Val Arg Lys Ala Gly Leu Lys Met Arg Ser His Leu Thr  
 35 40 45  
 Pro Ser Val Cys Thr Val Pro Ser Pro Gly Ser  
 50 55

<210> 2827  
 <211> 34  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (24)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 2827  
 Met Leu Thr Ser Leu Ile Cys Tyr Ala Ile Pro Cys Lys Phe Leu Asn  
 1 5 10 15  
 Phe Ala Val Pro Trp Phe Cys Xaa Ile Thr Pro Gly Ser Val Thr Met  
 20 25 30

Ala Thr



[illegible]

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<400> 2828
Met Leu Thr Ser Leu Ile Cys Tyr Ala Ile Pro Cys Lys Phe Leu Asn
  1             5             10             15

Phe Ala Val Pro Trp Phe Cys Xaa Ile Thr Pro Gly Ser Val Thr Met
      20             25             30

Ala Thr

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<400> 2829
Met Arg Met Ile Ile Ile Ser Tyr Ile Lys Ile Cys Gly Arg Phe Thr
  1             5             10             15

Val Met Ile Thr Leu Leu Val Pro Thr Leu Ser Leu Asn Leu His Asp
          20             25             30

Pro Val Ala Ser Lys Asn
      35
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<400> 2830
Met Gly Asn Leu Tyr Pro Lys Leu Gly Leu Lys Ile Ile Phe Ile Phe
  1                               10                          15

Val Phe Gln Gln Thr Trp Val Leu Cys Pro Ala Met Asp Gln Lys
                20                25                30

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1561

Val Thr Gln Ser Lys Trp Leu Ile Phe Tyr Ile Val Val Tyr Phe Val  
 1 5 10 15  
 Leu Pro Ser Ser Leu Arg Asn Lys Ala Arg Ile Phe Ser Leu Phe Asp  
 20 25 30  
 Ile Tyr Ser Glu Thr Lys Gly Leu Leu Asp Leu Met Ile Phe Leu Gln  
 35 40 45  
 Leu Ser Glu Gly Ala Phe Ser Thr Ile Gln Val Ile Leu Ile His Thr  
 50 55 60  
 Lys Val Glu Asn His Cys Thr Arg Ser Leu Cys Val Phe  
 65 70 75

<210> 2832  
 <211> 13  
 <212> PRT  
 <213> Homo sapiens

<400> 2832  
 Met Leu Ser Val Ala Thr Asn Arg Ile Tyr Asn Ser Asn  
 1 5 10

<210> 2833  
 <211> 67  
 <212> PRT  
 <213> Homo sapiens

<400> 2833  
 Met Phe Asn Trp Asn Leu Trp Leu Thr Thr Leu Ile Thr Gly Leu Ala  
 1 5 10 15  
 Gly Pro Leu Leu Leu Leu Leu Leu Gly Leu Val Phe Gly Pro Cys Ile  
 20 25 30  
 Leu Asn Trp Phe Leu Lys Phe Ile Lys Gln Phe Ile Ala Ser Val Lys  
 35 40 45  
 Leu Thr Tyr Leu Lys Thr Gln Tyr Asn Ser Leu Val Val Thr Glu Glu  
 50 55 60  
 Ser Met Ile  
 65

<210> 2834  
 <211> 18  
 <212> PRT  
 <213> Homo sapiens

<400> 2834  
 Met Cys Glu Ser Phe Pro Glu Gly Phe Cys Pro Cys Phe His Met Ser  
 1 5 10 15

His Asn

<210> 2835  
 <211> 21  
 <212> PRT  
 <213> Homo sapiens

<400> 2835  
 Met Phe Lys Val Arg Gly Phe Leu Ser Ile Cys Leu Val Phe Cys Trp  
           1                  5                  10                  15  
 Gln Val Thr Cys Arg  
                   20

<210> 2836  
 <211> 47  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (17)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 2836  
 Met Phe Lys Val Arg Gly Phe Leu Ser Ile Cys Leu Val Phe Cys Trp  
           1                  5                  10                  15  
 Xaa Gly His Met Gln Val Ile Gly Tyr Gly Lys Gly Lys Met Pro Arg  
                   20                  25                  30  
 Leu Leu Leu Gly Trp Ser Pro Ser Pro Lys Phe Lys Pro Pro Glu  
           35                  40                  45

<210> 2837  
 <211> 35  
 <212> PRT  
 <213> Homo sapiens

<400> 2837  
 Met Ser Leu Pro Leu Tyr Val Ser Leu Ser Asp Met Phe Tyr Ala Lys  
           1                  5                  10                  15  
 Leu Ser Asp Phe Lys Phe Lys Ile Ser Glu Ile Lys Cys Pro Ser Leu  
           20                  25                  30  
 His Ile Val  
           35

<210> 2838  
 <211> 19  
 <212> PRT  
 <213> Homo sapiens

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<400> 2838

Met Leu Val Leu Val Val Phe Cys Trp Ala Val Leu Val Tyr Phe His  
1 5 10 15

Pro Ser Leu

<210> 2839

<211> 29

<212> PRT

<213> Homo sapiens

<400> 2839

Met Met Cys Phe Leu Phe Leu Asn Glu Ile Cys Leu Ala Ser Cys Met  
1 5 10 15

Glu Asn Glu Phe Cys Trp Ser Ile Val Glu Thr Glu Thr  
20 25

<210> 2840

<211> 36

<212> PRT

<213> Homo sapiens

<400> 2840

Met Lys Met Leu Ile Cys Ser Leu Thr Leu Leu Val Cys Leu Ser Pro  
1 5 10 15

Arg Val Gly Arg Arg Ser Arg Tyr Tyr His Ser Lys Gly Thr Glu Ser  
20 25 30

Val Ser Thr Leu  
35

<210> 2841

<211> 18

<212> PRT

<213> Homo sapiens

<400> 2841

Met Asn Met Ile Cys Leu Ser Tyr Arg Leu Ala Leu Thr Cys Phe Phe  
1 5 10 15

Phe Gln

<210> 2842

<211> 348

<212> PRT

<213> Homo sapiens

<400> 2842



335

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (72)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2846

Cys Ser Xaa Ser Tyr Leu Trp Gln Val Asp Tyr Ile Gly Pro Leu His  
1 5 10 15

Tyr Gly Arg Asp Arg Ile Xaa Ser Tyr Trp Asn Ile Leu Thr Gln Asp  
20 25 30

Met Asp Leu Pro Phe Leu His Ala Ile Leu Leu Pro Arg Val Pro Ser  
35 40 45

Met Asp Leu Gln Asn Cys Leu Val Asp Cys His Gly Ile Thr His Ser  
50 55 60

Ile Ala Phe Asp Gln Gly Thr Xaa Ser Thr Asp Arg Asn Ala Ala Met  
65 70 75 80

His Ser

<210> 2847

<211> 123

<212> PRT

<213> Homo sapiens

<400> 2847

Val Ala Arg Leu His Arg Leu Leu His Thr Phe Leu Leu Thr Phe Cys  
1 5 10 15

Cys Leu Leu Met Ala Glu Glu Ala Ala Val Phe Ala Lys Tyr Leu Ala  
20 25 30

His Gly Leu Pro Ala Gly Ala Pro Leu Arg Leu Val Phe Leu Leu Asn  
35 40 45

Val Leu Leu Leu Gly Leu Trp Asn Phe Cys Cys Ser Val Pro Ser Ser  
50 55 60

Ile Ser Thr Ser Thr Leu Thr Arg Trp Trp Ala Pro Gln Trp Ala Pro  
65 70 75 80

Leu Pro Gly Thr Ser Pro Met Ala Ala Gly Ile Ile Ser Pro Gly Leu  
85 90 95





<210> 2851  
 <211> 37  
 <212> PRT  
 <213> Homo sapiens

<400> 2851  
 Met Asp Ile Lys Ile Leu Pro Met Cys Phe Val Phe Tyr Cys Cys Ser  
           1                  5                  10                  15  
 Ile Cys Tyr Cys Thr Cys Asp Gly Thr Cys Ala Tyr Ile Ala Leu Lys  
                   20                  25                  30  
 Gln Ile Ser Arg Ser  
                   35

<210> 2852  
 <211> 31  
 <212> PRT  
 <213> Homo sapiens

<400> 2852  
 Met Tyr Leu Phe Ile Leu Leu Tyr Leu Cys Phe Tyr Phe Ser Ser Ser  
           1                  5                  10                  15  
 Glu Asn Gly Phe Leu Val Ser Glu Val Tyr Leu Tyr Leu Lys Phe  
                   20                  25                  30

<210> 2853  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

<400> 2853  
 Met Trp Pro Leu Leu Phe Ala Ile Cys Val Ser Val Ala Tyr Gly Leu  
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 Ser Cys Ile Arg  
                   20

<210> 2854  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

<400> 2854  
 Gly Lys Cys Leu Ile Asn Leu Val Ile Gly Trp Val Lys Tyr Met Gly  
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 Glu Phe Tyr Met  
                   20

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<210> 2855  
<211> 20  
<212> PRT  
<213> Homo sapiens

<400> 2855  
Gly Lys Cys Leu Ile Asn Leu Val Ile Gly Trp Val Lys Tyr Met Gly  
1 5 10 15  
Glu Phe Tyr Met  
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<210> 2856  
<211> 82  
<212> PRT  
<213> Homo sapiens

<400> 2856  
Met Ser Cys Ser His Thr Cys Leu Tyr Leu Lys Pro Ser Val Cys Pro  
1 5 10 15  
Val Val Trp Gly Glu Val Met Asp Ser Ala Arg Trp Thr Cys Cys Gly  
20 25 30  
Trp Met Phe Pro Ala Cys Ala Gly Pro Glu Trp Thr Gly Ala Thr Ser  
35 40 45  
Gln His Val Arg Glu Asn His Cys His Thr Ile Pro Met Asp Phe Val  
50 55 60  
Leu Phe Leu Lys Lys Lys Lys Phe Phe Ser Val Asn Met Asn Phe Phe  
65 70 75 80  
Ser Met

<210> 2857  
<211> 156  
<212> PRT  
<213> Homo sapiens

<400> 2857  
Met Leu Thr Asp Met Met Lys Gly Asn Val Thr Asn Val Leu Pro Met  
1 5 10 15  
Ile Leu Ile Gly Gly Trp Ile Asn Met Thr Phe Ser Gly Phe Val Thr  
20 25 30  
Thr Lys Val Pro Phe Pro Leu Thr Leu Arg Phe Lys Pro Met Leu Gln  
35 40 45  
Gln Gly Ile Glu Leu Leu Thr Leu Asp Ala Ser Trp Val Ser Ser Ala  
50 55 60  
Ser Trp Tyr Phe Leu Asn Val Phe Gly Leu Arg Ser Ile Tyr Ser Leu



<213> Homo sapiens

<400> 2861

Met Ser Leu Gln Leu Asp Arg Arg Gly Met Trp Asn Met Leu Gly Pro  
 1 5 10 15  
 Cys Leu Phe Ala Phe Val Ile Met Ala Ser Met Trp Ala Tyr Arg Cys  
 20 25 30  
 Gly His Arg Arg Gln Cys Tyr Pro Thr Ser Trp Gln Arg Trp Ala Phe  
 35 40 45  
 Tyr Leu Leu Pro Gly Val Ser Met Ala Ser Val Gly Ile Ala Ile Tyr  
 50 55 60  
 Thr Ser Met Met Thr Ser Asp Asn Tyr Tyr Tyr Thr His Ser Ile Trp  
 65 70 75 80  
 His Ile Leu Leu Ala Gly Ser Ala Ala Leu Leu Leu Pro Pro Pro Asp  
 85 90 95  
 Gln Pro Ala Glu Pro Trp Ala Cys Ser Gln Lys Phe Pro Cys His Tyr  
 100 105 110  
 Gln Ile Cys Lys Asn Asp Arg Glu Glu Leu Tyr Ala Val Thr  
 115 120 125

<210> 2862

<211> 39

<212> PRT

<213> Homo sapiens

<400> 2862

Met Phe Ser Phe Tyr Ser His Asn Pro Leu Lys Pro Cys Leu Val Leu  
 1 5 10 15  
 Leu Leu Phe Ala Ser Ala Val Gln Asp Val Ala Pro Phe Leu Leu Phe  
 20 25 30  
 Glu His Gly Leu Val Thr Arg  
 35

<210> 2863

<211> 24

<212> PRT

<213> Homo sapiens

<400> 2863

Met Cys Asn Leu Tyr Leu Ile Leu Tyr Phe Val Ile His Thr Asn Met  
 1 5 10 15  
 Ser Arg His Cys Asp Ile Cys Leu  
 20

<210> 2864

Table 1. Demographic characteristics of the study population	
Age (years)	Mean (SD)
Male	55.2 (10.5)
Female	56.8 (11.2)
Marital status	
Married	78.5%
Single	21.5%
Education level	
High school or above	65.2%
Below high school	34.8%
Occupation	
Professional	12.3%
Managerial	18.7%
Technical	25.4%
Service	32.1%
Unemployed	11.5%
Income (USD/month)	
< 1000	15.6%
1000-2000	28.9%
2000-3000	35.2%
> 3000	20.3%
Health insurance	
Yes	89.7%
No	10.3%
Smoking status	
Smoker	22.4%
Non-smoker	77.6%
Alcohol consumption	
Regular	8.1%
Occasional	14.5%
Never	77.4%
Comorbidities	
Hypertension	45.3%
Diabetes	12.7%
Cholesterol	38.9%
Heart disease	18.2%
Stroke	5.6%
Arthritis	22.1%
Depression	10.4%
Other	14.8%

<400> 2867

Cys Leu Leu Leu Ser Lys Leu Leu His Leu Gln Pro Leu Ala Val Ala  
1 5 10 15

Asp Ser

<210> 2868

<211> 40

<212> PRT

<213> Homo sapiens

<400> 2868

Met Phe Cys Thr Leu Trp Ile Gly Ile Leu Val Arg Lys Ser Ile Ala  
1 5 10 15

Ser Arg Lys Arg Leu Met Ser Gln Leu Ala Gly Glu Thr Val Pro Ser  
20 25 30

Phe Trp Val Ala Val Leu Val Lys  
35 40

<210> 2869

<211> 35

<212> PRT

<213> Homo sapiens

<400> 2869

Met Val Ile Leu Leu Ala His Pro Cys Ile His Gln Pro Gly Ile Ser  
1 5 10 15

Leu Asn Leu Phe Ala Ser Glu Phe Leu Leu Thr Phe Gln Tyr Ile Gly  
20 25 30

Ile Ile Asp  
35

<210> 2870

<211> 11

<212> PRT

<213> Homo sapiens

<400> 2870

Met Tyr Phe Ser Ile Glu Gly Gly Val Phe Gln  
1 5 10

<210> 2871

<211> 24

<212> PRT

<213> Homo sapiens

<400> 2871

Val Cys Val Thr Val Ser Asn Pro Ile Ser Cys Leu Ser Val Ala Pro  
 1 5 10 15

Ser His Leu Leu Asp Gln Ala Ala  
 20

<210> 2872  
 <211> 26  
 <212> PRT  
 <213> Homo sapiens

<400> 2872  
 Met Ser Thr Ile Met Phe Ser Leu Trp Thr Ile Cys Val Gly Leu Pro  
 1 5 10 15

Pro Ala Arg Ser Leu Leu Tyr Pro His Gln  
 20 25

<210> 2873  
 <211> 37  
 <212> PRT  
 <213> Homo sapiens

<400> 2873  
 Met Gln Ile Leu His Trp Gln Trp Leu Leu Cys Val Lys Tyr Phe Pro  
 1 5 10 15

Phe Gly Leu Ile Phe Ile His Ile Val Ser Leu Asn Lys Gly Glu Thr  
 20 25 30

Thr Tyr Arg Arg Asn  
 35

<210> 2874  
 <211> 39  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (16)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 2874  
 Met Thr Leu Ala Phe Val Val Leu Ala Leu Trp Pro Asn Gly Arg Xaa  
 1 5 10 15

His Val Leu Val His Met Cys Trp Leu Leu Phe Leu Lys Ser Trp Gln  
 20 25 30

Cys Gln His Met Gly Gly Ile  
 35

<210> 2875  
 <211> 1  
 <212> PRT  
 <213> Homo sapiens

<400> 2875  
 Leu  
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<210> 2876  
 <211> 148  
 <212> PRT  
 <213> Homo sapiens

<400> 2876  
 Met Ser Pro Arg Trp Ala Leu Val Thr Leu Leu Gly Phe Ser His Arg  
 1 5 10 15  
 Lys Gln Arg Cys Leu Pro Leu Pro Leu Leu His Ile Leu Pro Leu Pro  
 20 25 30  
 Ser Arg Ala Gly Phe Trp Val His Leu Ser Thr Gly Arg Cys Ser Gln  
 35 40 45  
 Gly Val Gly Ala Gly Gly Gly Val Cys Gly Gln Val Leu Gly Gly Thr  
 50 55 60  
 Arg Lys Ser Arg Gly Val Ala His Ala Asp Gln Ala His Val Ala His  
 65 70 75 80  
 Gly Ala Glu Leu Pro Arg Thr Ala His Asp Ser Ala Thr Phe Ser Pro  
 85 90 95  
 Phe Gln Pro Arg Arg Asp Val Thr Leu Glu Leu Leu Trp His Phe Cys  
 100 105 110  
 Gln Ala Ser Pro Ala Pro Ile Ala Leu Arg Ser Leu Leu Phe Val Arg  
 115 120 125  
 Asp Leu Gln Arg Leu Thr Phe Leu Leu Phe Ser His His Ser Ile Val  
 130 135 140  
 Ile Leu Arg Asn  
 145

<210> 2877  
 <211> 7  
 <212> PRT  
 <213> Homo sapiens

<400> 2877  
 Met His Leu Val Thr Val Cys  
 1 5

<210> 2878



<211> 10  
<212> PRT  
<213> Homo sapiens

<400> 2878  
Met Ser Leu Cys Gly Ser Arg Asp Leu Cys  
1 5 10

<210> 2879  
<211> 8  
<212> PRT  
<213> Homo sapiens

<400> 2879  
Met Trp Ile Leu Leu Tyr Leu Ile  
1 5

<210> 2880  
<211> 15  
<212> PRT  
<213> Homo sapiens

<400> 2880  
Met Met Phe Leu Leu Ile Phe Val Trp Tyr Leu Gln Pro Tyr Pro  
1 5 10 15

<210> 2881  
<211> 18  
<212> PRT  
<213> Homo sapiens

<400> 2881  
Met Gln Leu Trp Leu Lys Ser Gly Leu Leu Leu Ser Phe Ile Leu Ile  
1 5 10 15

Leu Pro

<210> 2882  
<211> 7  
<212> PRT  
<213> Homo sapiens

<400> 2882  
Leu Gly Phe Leu Leu Leu Thr  
1 5

<210> 2883  
<211> 77  
<212> PRT  
<213> Homo sapiens

<400> 2883

Met Ile Arg Met Leu Val Leu Ser Leu Leu Leu Thr Phe Tyr Leu Leu  
1 5 10 15

Ser Ile Trp Ser Ile Ala Phe Phe Leu Ala Cys Gln Ala Ala Arg Ile  
20 25 30

Phe Arg Asp His Leu Val Gln Ser Leu Ile Arg Cys Leu His Pro His  
35 40 45

Thr Tyr Val Pro Ser Lys Gly Ser Ala Phe Asp Ile Val Phe Ile Leu  
50 55 60

His Leu Phe Ser Leu Ser Arg Asp Ser Glu Arg Ala Glu  
65 70 75

<210> 2884

<211> 37

<212> PRT

<213> Homo sapiens

<400> 2884

Met Ser Leu Ser Leu Ile Tyr Phe Ser Val Ser Phe Thr Thr Phe Gly  
1 5 10 15

Val Lys Ser Ser His Asp Leu Tyr Ile Pro Arg Leu Leu Leu Leu Lys  
20 25 30

Ile Leu Tyr Ile Leu  
35

<210> 2885

<211> 62

<212> PRT

<213> Homo sapiens

<400> 2885

Arg Gly Arg Gly Arg Leu Leu Gly Leu Ser Ser Phe Leu Cys Ile Ile  
1 5 10 15

Leu Gly Leu Ala Trp Thr Ala Pro Ala Ser Glu Ser Cys Gly Pro His  
20 25 30

Pro Leu Ala Ala Glu Pro Ser Thr Val Ile Leu Gly Ala Ile Phe Pro  
35 40 45

Cys Arg Thr Gly Ser Leu Ser Pro Ala Pro Thr Phe Gly Leu  
50 55 60

<210> 2886

<211> 62

<212> PRT

<213> Homo sapiens



<400> 2889

Met Leu Leu Gly Ile Ser Ala Val Gly Leu Phe  
1 5 10

<210> 2890

<211> 40

<212> PRT

<213> Homo sapiens

<400> 2890

Gly Ile Leu Leu Val Gln Thr Tyr Leu Gly Cys Cys Trp Gly Arg His  
1 5 10 15

Leu Gly Phe Ser Val Ser Cys Ile His Arg Gly Arg Pro Phe Gln Ile  
20 25 30

Gln Glu His Trp Ile Arg Glu Ser  
35 40

<210> 2891

<211> 36

<212> PRT

<213> Homo sapiens

<400> 2891

Met Pro Ser Pro Leu Leu Ser Ser Val Asn Thr Asn Thr Phe Pro Thr  
1 5 10 15

Pro Leu Cys Ser Arg Arg Pro Val Ala Gly Arg Phe Ser Val Pro Val  
20 25 30

Val Trp Ile Leu  
35

<210> 2892

<211> 28

<212> PRT

<213> Homo sapiens

<400> 2892

Met Asn Asp Pro Pro Thr Ala Pro His Gly Leu Phe Leu Phe Leu Trp  
1 5 10 15

Leu Phe Ser Leu Arg Ser Gly Gly Phe Thr Arg Ile  
20 25

<210> 2893

<211> 46

<212> PRT

<213> Homo sapiens

<400> 2893

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Val Tyr Val His Thr Leu Cys Phe Val Cys Val Trp Phe Gly Ala Ala  
1 5 10 15

Cys Val Cys Val Cys Val Cys Val Cys Asp Ile Cys Tyr Ala Cys Val  
20 25 30

Cys Gln Cys Val Leu Gly Val Pro Ala Pro Leu Ser Trp Arg  
35 40 45

<210> 2894  
<211> 119  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (51)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (59)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (68)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2894  
Met Gly Ser Ala Leu Gly Leu Ala Gly Ile Ser Gly Ser Leu Gly Ser  
1 5 10 15

Gly Ala Arg Leu Arg Trp Ala Arg Ser Arg Thr Gln Gly Ala Gly Leu  
20 25 30

Trp Gly Val Leu Ala Ala Gly Ala Val Ser Gly Glu Ser Gln Ser Cys  
35 40 45

Arg Ala Xaa Lys Glu Arg Glu Gly Ala Val Xaa Ala Met Pro Pro Val  
50 55 60

Gly Gln Gln Xaa Asn Arg Gln Ala Leu Pro Ala His Pro Pro Thr His  
65 70 75 80

Leu Gly Val His Pro Pro His Trp Ala Trp Pro Arg Gln Val Ser Leu  
85 90 95

Pro Gly Pro Gly Pro Ala Gln Pro Ala Ser Leu Phe Leu Leu Pro Pro  
100 105 110

His Ser Pro Gly Thr Gly Leu  
115

<210> 2895  
<211> 65  
<212> PRT



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<211> 24  
<212> PRT  
<213> Homo sapiens

<400> 2903  
Met Val Ser His Gly Cys His Val Pro Leu Phe Ala Leu Phe Met Val  
1 5 10 15  
Leu Pro Ser Ser Gln Gly Leu Pro  
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<210> 2904  
<211> 36  
<212> PRT  
<213> Homo sapiens

<400> 2904  
Met Pro Leu Phe Gly Gly Asn Leu Gly Tyr Ala Trp Ala Trp Phe Thr  
1 5 10 15  
Pro Ile Thr Trp Val Ala Val Leu Ala His Leu Ile Val Ser Ser Ile  
20 25 30  
His Pro Gly Lys  
35

<210> 2905  
<211> 41  
<212> PRT  
<213> Homo sapiens

<400> 2905  
Met Ala Arg Val Ser Ala Arg Trp Arg Ser Leu Leu Ala Trp Trp Val  
1 5 10 15  
Ser Ser Cys Pro Ile Ser Leu Glu Gly Arg Ala Gly Ser His Glu His  
20 25 30  
Gly Glu Tyr Pro Trp Met Leu His Ser  
35 40

<210> 2906  
<211> 33  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (25)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2906  
Phe Leu Phe Trp Gly Val Met Lys Ile Leu Gly Cys Ala Pro Ile Phe  
1 5 10 15



Ser Phe Leu Arg Leu Ser Leu Ile Xaa Asp Arg His Leu Gly Val Val  
 20 25 30

Phe

<210> 2907  
 <211> 123  
 <212> PRT  
 <213> Homo sapiens

<400> 2907  
 Met Ala Phe Leu Ser Phe Cys Cys Cys Ala Phe Ala Leu Tyr Tyr Trp  
 1 5 10 15  
 Ser Ser Ala Phe Ser Leu Ser Ile Val Phe Phe Phe Leu Tyr Arg Ile  
 20 25 30  
 Tyr Thr Pro Lys Phe Phe His Leu Ala Ser Ser His Asn Leu Thr Ser  
 35 40 45  
 Pro Ser Gly Ser Cys Pro Val Phe Leu Leu Leu Phe Ile Leu Ser Leu  
 50 55 60  
 Lys Gly Arg Val Tyr Ser His Tyr Leu His Phe Ser Thr Cys His Leu  
 65 70 75 80  
 Ala Phe His Pro Leu Gln Pro Glu Phe Asp Pro Gln Asn Ser Thr Glu  
 85 90 95  
 Thr Thr Leu Ser Lys Ala Thr Asn Tyr Cys Leu Ile Val Lys Val Asn  
 100 105 110  
 Gly Leu Phe Phe Ile Phe Ile Ile Tyr Gly Ile  
 115 120

<210> 2908  
 <211> 37  
 <212> PRT  
 <213> Homo sapiens

<400> 2908  
 Met Asn Ile Val Trp Phe Val Met Ser His Met Cys Phe Lys Met Ala  
 1 5 10 15  
 Leu Cys Leu Gly Leu Pro Tyr Val Asn Gly Ser Cys Val Cys Leu Leu  
 20 25 30  
 Phe Lys Pro Trp Glu  
 35

<210> 2909  
 <211> 16  
 <212> PRT  
 <213> Homo sapiens

<400> 2909

Met Phe Leu Asp Phe Leu Phe Cys Pro Val Gly Leu Phe Val Ser Leu  
1 5 10 15

<210> 2910

<211> 182

<212> PRT

<213> Homo sapiens

<400> 2910

Met Thr Leu Ala Ala Tyr Lys Glu Lys Met Lys Glu Leu Pro Leu Val  
1 5 10 15

Ser Leu Phe Cys Ser Cys Phe Leu Ala Asp Pro Leu Asn Lys Ser Ser  
20 25 30

Tyr Lys Tyr Glu Ala Asp Thr Val Asp Leu Asn Trp Cys Val Ile Ser  
35 40 45

Asp Met Glu Val Ile Glu Leu Asn Lys Cys Thr Ser Gly Gln Ser Phe  
50 55 60

Glu Val Ile Leu Lys Pro Pro Ser Phe Asp Gly Val Pro Glu Phe Asn  
65 70 75 80

Ala Ser Leu Pro Arg Arg Arg Asp Pro Ser Leu Glu Glu Ile Gln Lys  
85 90 95

Lys Leu Glu Ala Ala Glu Glu Arg Arg Lys Tyr Gln Glu Ala Glu Leu  
100 105 110

Leu Lys His Leu Ala Glu Lys Arg Glu His Glu Arg Glu Val Ile Gln  
115 120 125

Lys Ala Ile Glu Glu Thr Thr Thr Ser Ser Arg Trp Leu Arg Lys Asn  
130 135 140

Trp Pro Arg Arg Trp Asn Pro Thr Arg Arg Thr Gly Arg Pro Thr Ser  
145 150 155 160

Pro Pro Cys Trp Asn Gly Cys Lys Arg Arg Thr Ser Thr Pro Arg Arg  
165 170 175

Cys Gly Lys Thr Arg Ser  
180

<210> 2911

<211> 120

<212> PRT

<213> Homo sapiens

<400> 2911

Ala Thr Ala Leu Pro Ser Met Ser Ser Thr Phe Trp Ala Phe Met Ile



Asn Gln Val Asn Arg Gly Pro Glu Pro Pro Leu Cys Leu Leu Glu Ile  
 20 25 30

Pro Lys Thr Glu Met Cys Ser Arg Ser Arg Ser Lys Thr Leu Ser Leu  
 35 40 45

<210> 2915  
 <211> 37  
 <212> PRT  
 <213> Homo sapiens

<400> 2915  
 Met Arg Ser Leu Gly Ser Thr Leu Val Ser Asp Thr Trp Asp Arg Gly  
 1 5 10 15  
 Ala Phe Ala Thr Leu Val Val Val Thr Pro Pro His Leu Pro Ala Ser  
 20 25 30  
 Phe Thr Asp Ser Lys  
 35

<210> 2916  
 <211> 40  
 <212> PRT  
 <213> Homo sapiens

<400> 2916  
 Met Cys Lys Met Phe Asn Leu Pro Phe Leu Leu Leu Val Ser Val Ala  
 1 5 10 15  
 Leu Trp Cys Lys Gln Leu Lys Thr Leu Asn Val Tyr Thr Ile Arg Pro  
 20 25 30  
 Arg Arg Gln Met Lys Tyr Phe Phe  
 35 40

<210> 2917  
 <211> 36  
 <212> PRT  
 <213> Homo sapiens

<400> 2917  
 Met Thr Asn Leu Val Ile Ser Phe Thr Leu Arg Phe Ser Ser Phe Pro  
 1 5 10 15  
 Val Leu Pro Phe Cys Leu Leu Leu Cys Asn Ile Ala Phe Gly Leu Asn  
 20 25 30  
 Asn Thr Phe Ser  
 35

<210> 2918  
 <211> 39  
 <212> PRT  
 <213> Homo sapiens

<400> 2918  
 Met Thr Arg Pro Thr Ile Val Ser Ser Cys Leu Trp Ala Val Arg Gln  
 1 5 10 15  
 Leu Val Gly Thr Arg Ser Asn Pro Arg Phe Phe Leu Gln Tyr Ser Gly  
 20 25 30  
 Tyr Asn Leu Ser Trp Leu Leu  
 35

<210> 2919  
 <211> 182  
 <212> PRT  
 <213> Homo sapiens

<400> 2919  
 Met Ala Ala Leu Ala His Glu Ala Val Gly Thr Arg Asp Leu Leu Ala  
 1 5 10 15  
 Ala Gly Cys Cys Cys Leu Ala Arg Trp Gly Ser Met Glu Glu Leu Gly  
 20 25 30  
 Leu Pro Pro Arg Pro Ala Pro Ala Ala Arg Met Leu Gly Ser His Gly  
 35 40 45  
 Gly Thr Arg Pro Gly Ala Pro Ala Ser Pro Ser Gly Trp Cys Gly Gln  
 50 55 60  
 Leu Phe Pro Ala Ser Gln Cys Pro Gly Gly Ser Cys Leu Ala Asp Ser  
 65 70 75 80  
 Ala Trp Ser Pro Ala Gly Phe Arg Lys Thr Gln Leu His Val Trp Asp  
 85 90 95  
 Ser Ser Pro Ala Leu Gly Cys Gly Val Ser Val His Leu Arg Ala Gly  
 100 105 110  
 Gly Pro Thr His Arg Leu Pro Leu Gln Val His Pro Arg Ala Trp Ala  
 115 120 125  
 Arg Trp Ala Pro Gly Thr Trp Pro Ala Asp Ala Ala Thr Ser Asp Gln  
 130 135 140  
 Cys Cys Val Glu Glu Pro Arg Ala Ala Pro Gly Lys Pro Gly Phe Asn  
 145 150 155 160  
 Ser Thr Arg Lys Arg Asn Leu Leu Cys Phe Val Arg Ala Cys Ser Phe  
 165 170 175  
 Ser Ser Phe Leu Ser Leu  
 180



<212> PRT  
<213> Homo sapiens

<400> 2922  
Met Tyr Trp Cys Thr Tyr Cys Met Glu Ala Trp Leu Ser Ser Gln Gln  
1 5 10 15  
Leu Val Leu His Arg Asn Met Arg Pro Cys Ile Phe Gln Met Phe Ser  
20 25 30  
Leu Ser Arg Leu Phe Thr Met Glu Ser Thr Thr Ser Cys Thr His Ser  
35 40 45  
Cys Cys Ser Ser Ala Met Ala Ser Pro  
50 55

<210> 2923  
<211> 27  
<212> PRT  
<213> Homo sapiens

<400> 2923  
Met Pro Ala Ser Leu Arg Asn Pro Thr Val Leu His Met Leu Ser Asn  
1 5 10 15  
Thr Ile Phe Ser Tyr Pro Leu Ser Leu Pro Cys  
20 25

<210> 2924  
<211> 40  
<212> PRT  
<213> Homo sapiens

<400> 2924  
Gly Cys His His Leu Phe Leu Tyr Ile Phe Cys Asn Ile Leu Lys Leu  
1 5 10 15  
Leu Pro Ser Leu Ile Ile Ile Ser Val Cys Val Cys Lys Asp Asn Gln  
20 25 30  
Ala Phe Lys Phe Ile Lys His Val  
35 40

<210> 2925  
<211> 244  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (78)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE

<222> (222)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 2925

Met His Leu Ala Leu Tyr Cys Phe Ala Ser Ser Gln Leu Ser Thr Ala  
1 5 10 15  
Leu Ser Leu Leu Tyr Arg Ala Arg Tyr Leu Met Leu Leu Val Phe Gly  
20 25 30  
Glu Asp His Pro Glu Met Ala Leu Leu Asp Asn Asn Ile Gly Leu Val  
35 40 45  
Leu His Gly Val Met Glu Tyr Asp Leu Ser Leu Arg Phe Leu Glu Asn  
50 55 60  
Ala Leu Ala Val Ser Thr Lys Tyr His Gly Pro Lys Ala Xaa Lys Val  
65 70 75 80  
Ala Leu Ser His His Leu Val Ala Arg Val Tyr Glu Ser Lys Ala Glu  
85 90 95  
Phe Arg Ser Ala Leu Gln His Glu Lys Glu Gly Tyr Thr Ile Tyr Lys  
100 105 110  
Thr Gln Leu Gly Glu Asp His Glu Lys Thr Lys Glu Ser Ser Glu Tyr  
115 120 125  
Leu Lys Cys Leu Thr Gln Gln Ala Val Ala Leu Gln Arg Thr Met Asn  
130 135 140  
Glu Ile Tyr Arg Asn Gly Ser Ser Ala Asn Ile Pro Pro Leu Lys Phe  
145 150 155 160  
Thr Ala Pro Ser Met Ala Ser Val Leu Glu Gln Leu Asn Val Ile Asn  
165 170 175  
Gly Ile Leu Phe Ile Pro Leu Ser Gln Lys Asp Leu Glu Asn Leu Lys  
180 185 190  
Ala Glu Val Ala Arg Arg His Gln Leu Gln Glu Ala Ser Arg Asn Arg  
195 200 205  
Asp Arg Ala Glu Glu Pro Met Ala Thr Glu Pro Ala Pro Xaa Gly Ala  
210 215 220  
Pro Gly Asp Leu Gly Ser Gln Pro Pro Ala Ala Lys Asp Pro Ser Pro  
225 230 235 240  
Ser Val Gln Gly

<210> 2926

<211> 48

<212> PRT

<213> Homo sapiens

<400> 2926

His Leu Gln His Cys Val Ser Cys Gly Cys Ala Val Thr Gly Ile Lys



1                      5                      10                      15

Ser Ser Ala Phe Asn Ala Lys Gly Ser Glu Ile Phe Leu Lys Leu Ile  
                     20                      25                      30

Ser Cys Pro Met Gln Val Phe Ser Thr Thr Cys Ile Thr Ser Thr Leu  
                     35                      40                      45

<210> 2927  
 <211> 71  
 <212> PRT  
 <213> Homo sapiens

<400> 2927  
 Met Val Gln His Lys Thr Thr Phe Gln Val Leu Phe Leu Phe Gly Val  
   1                      5                      10                      15

Ser Phe Gln Val Phe Lys Cys Ile Ser Gln Pro Glu His Leu Phe Asn  
                     20                      25                      30

His Ile His Gly Ser Leu Leu Asn Ala Glu Leu Leu His Met Leu Asp  
                     35                      40                      45

Leu Lys Ile Ile Ile Ile Glu Glu Thr Ile Gly Leu Val Val Pro Arg  
                     50                      55                      60

Lys Val Ser Asp Val Tyr Val  
   65                      70

<210> 2928  
 <211> 44  
 <212> PRT  
 <213> Homo sapiens

<400> 2928  
 Asp Leu Gln Ile Gln Trp Pro Ile Leu Leu Ser Leu Ser Cys Glu Gly  
   1                      5                      10                      15

Val Phe Gln Val Leu Lys Gln Ser Lys Asn His Leu Gly Pro Ser Leu  
                     20                      25                      30

Arg Lys His Phe Ser Gly Gln Val Gly Phe Arg Leu  
                     35                      40

<210> 2929  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<400> 2929  
 Gly Phe Tyr Thr Phe Leu Pro Ser Leu Pro Gly Ala Leu Tyr  
   1                      5                      10

<210> 2930  
 <211> 139  
 <212> PRT  
 <213> Homo sapiens

<400> 2930  
 Met Lys Lys Ile Val Asp Gln Asn Thr Lys Leu Ala Pro Glu Thr Lys  
           1                  5                  10                  15  
 Ala Val Ile His Trp Ile Met Asp Ile Pro Phe Val Leu Ser Ala Asn  
                   20                  25                  30  
 Leu His Gly Gly Asp Leu Val Ala Asn Tyr Pro Tyr Asp Glu Thr Arg  
                   35                  40                  45  
 Ser Gly Ser Ala His Glu Tyr Ser Ser Ser Pro Asp Asp Ala Ile Phe  
           50                  55                  60  
 Gln Ser Leu Ala Arg Ala Tyr Ser Ser Phe Asn Pro Ala Met Ser Asp  
           65                  70                  75                  80  
 Pro Asn Arg Pro Pro Cys Arg Lys Asn Asp Asp Asp Ser Ser Phe Val  
                   85                  90                  95  
 Asp Gly Thr Thr Asn Gly Val Leu Gly Thr Ala Tyr Leu Glu Gly Cys  
                   100                  105                  110  
 Lys Thr Ser Ile Thr Leu Ala Ala Thr Val Leu Arg Ser Pro Trp Ser  
           115                  120                  125  
 Leu Ala Val Arg Ser Ser His Leu Lys Arg Leu  
           130                  135

<210> 2931  
 <211> 2  
 <212> PRT  
 <213> Homo sapiens

<400> 2931  
 Met Tyr  
   1

<210> 2932  
 <211> 9  
 <212> PRT  
 <213> Homo sapiens

<400> 2932  
 Met Arg Phe Leu Phe Ile Phe Cys Phe  
   1                  5

<210> 2933

<211> 12  
 <212> PRT  
 <213> Homo sapiens

<400> 2933  
 Met Glu Arg Val Arg Thr Ser Met Glu Cys Phe Cys  
 1 5 10

<210> 2934  
 <211> 48  
 <212> PRT  
 <213> Homo sapiens

<400> 2934  
 Met Leu Val Ile Leu Leu Asp Met Phe Phe Val Val Val Val Thr Trp  
 1 5 10 15  
 Asn Phe Cys Ile Leu Asn Lys Phe Gly Asp Gln Ile Gln Lys Lys Lys  
 20 25 30  
 Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys  
 35 40 45

<210> 2935  
 <211> 31  
 <212> PRT  
 <213> Homo sapiens

<400> 2935  
 Met Val Ile Trp Ser Thr Tyr Asp Thr Leu Ala Val Leu Ile Phe Gly  
 1 5 10 15  
 Val Leu Ala Leu Val Leu Ser His Leu His Val Trp Val Phe Leu  
 20 25 30

<210> 2936  
 <211> 48  
 <212> PRT  
 <213> Homo sapiens

<400> 2936  
 Glu Leu Ser Cys Trp Gln Asp Leu Leu Glu Leu Ala Arg Gln Leu Trp  
 1 5 10 15  
 Leu Trp Leu Leu Leu Arg Ser Trp Val Val Arg Ser Pro Ser Ala Gln  
 20 25 30  
 Trp Trp Gly Val Lys Phe Thr Gln Leu Arg Ser Arg Arg Gln Arg Cys  
 35 40 45

<210> 2937  
 <211> 59  
 <212> PRT  
 <213> Homo sapiens

<400> 2937  
 Met Gly Gly His Gly Ser Ala Gly Leu Cys Leu Lys His Thr Leu Gln  
           1                  5                  10                  15  
 Leu Gln Leu Phe Ser Leu Val Phe Cys Leu Lys Leu Ile Leu Thr Glu  
                   20                  25                  30  
 Ser Asp Phe Val Phe Ile Ser Phe Gln Gly Leu Gly Cys Leu Trp Ala  
                   35                  40                  45  
 Ser Pro Gly Gly Leu Glu Val Gly Lys Gly Lys  
           50                  55

<210> 2938  
 <211> 1  
 <212> PRT  
 <213> Homo sapiens

<400> 2938  
 Phe  
   1

<210> 2939  
 <211> 44  
 <212> PRT  
 <213> Homo sapiens

<400> 2939  
 Met Ser Gly Leu Ser Gly Ala Pro Trp Gly Thr Trp Ala Leu Pro Leu  
           1                  5                  10                  15  
 Ala His Leu Ser Leu Leu Ser Arg Thr Cys Leu Ser Ser Ser Pro Leu  
                   20                  25                  30  
 Gly Phe Arg Leu Phe Ser Arg His Leu Arg His Leu  
           35                  40

<210> 2940  
 <211> 38  
 <212> PRT  
 <213> Homo sapiens

<400> 2940  
 Met Leu Ser Leu Pro Ala Pro Leu Arg Val Asn Arg Gly Leu Trp Gln  
           1                  5                  10                  15  
 Leu Cys Thr Gly Ala Gly Leu Trp Leu Leu Gln Gly Ala Leu Pro Val

20

25

30

Thr Arg Ser Trp Ala Val  
35

<210> 2941  
<211> 40  
<212> PRT  
<213> Homo sapiens

<400> 2941  
Met Ala Gly Val Ser Thr Ser Pro Gly Pro Phe Leu Arg Tyr Leu Pro  
1 5 10 15  
Ala Cys Leu Pro Glu Leu Thr Cys Arg Pro Arg Lys Met Leu Thr Glu  
20 25 30  
Val Leu Leu Glu Val Ala Pro Ala  
35 40

<210> 2942  
<211> 133  
<212> PRT  
<213> Homo sapiens

<400> 2942  
Met Phe Thr Asp Leu Ser Ser Ser Trp Cys Met Thr Met Thr Pro Val  
1 5 10 15  
Gly Ser Met Thr Ser Ser Ala Ser Ser Pro Ala Leu Ser Arg Arg Cys  
20 25 30  
Arg Lys Gly Arg Gln Thr Leu Gly Arg Arg Cys Ser Gly Thr Val Ser  
35 40 45  
Thr Gln Val Ser Gly Gln Glu Glu Leu Gln Glu Leu Arg Asp Gly  
50 55 60  
Ser Ala Gly Pro Val His Gly Gly Glu Gly Ala His Leu Pro Gly Leu  
65 70 75 80  
His His Gly Trp Leu Pro Asp Gln Leu His Gly Gly His Arg Leu His  
85 90 95  
Arg Leu Gln Trp Gly Pro Glu Glu Gln Pro Val Pro Ala Leu Pro Gln  
100 105 110  
Ser Pro Thr Ala Gln Pro Leu Pro Ala Gly Pro Ala Cys Ser Gly Arg  
115 120 125  
His Leu Pro Gly Leu  
130

<210> 2943  
<211> 8



<211> 42  
 <212> PRT  
 <213> Homo sapiens

<400> 2947  
 Ile Ile Val Arg Val Gly Phe Ala Leu Ser Cys Ser Val Ser Cys Pro  
 1 5 10 15  
 Phe Phe Ala Leu Leu Ser Cys Asp Ala Phe His His Ile Met Thr Gln  
 20 25 30  
 Gln Glu Gly Pro His Lys Val Pro Ala Pro  
 35 40

<210> 2948  
 <211> 42  
 <212> PRT  
 <213> Homo sapiens

<400> 2948  
 Met Lys Ile Phe Met Tyr Val Pro Ile Ile Leu Phe Arg Ser Gln Cys  
 1 5 10 15  
 Leu Cys Leu Ser Leu Thr Glu Ile Ile Glu Leu Leu Ser Ser Ser Lys  
 20 25 30  
 Leu Asn Lys Thr Leu Glu Leu Lys Ala Ser  
 35 40

<210> 2949  
 <211> 6  
 <212> PRT  
 <213> Homo sapiens

<400> 2949  
 Gly Val Ser Leu His Gln  
 1 5

<210> 2950  
 <211> 66  
 <212> PRT  
 <213> Homo sapiens

<400> 2950  
 Met Gly Ser Arg Leu Ala Pro Leu Leu Ser Ala Cys Leu Phe Val Ser  
 1 5 10 15  
 Val Ile Leu Gly Arg Met Val Ile Leu Lys Asn Pro Gly Val Leu Gly  
 20 25 30  
 Gln Arg Gln Ala Gly Pro Ser Pro Gly Ala Pro Gly Leu Pro Ser Pro  
 35 40 45  
 Ser Val Arg Ala Pro Leu Gly His Lys Cys Ser Glu Arg Ser Pro Ser  
 50 55 60

Ala Thr  
65

<210> 2951  
<211> 87  
<212> PRT  
<213> Homo sapiens

<400> 2951  
Met Glu Gly Pro Leu Gln Ser Phe Lys Arg Arg Leu Trp Gly Gly Val  
1 5 10 15  
Glu Cys Ala Leu Gly Leu Asp Thr Cys Arg Gly Ala Pro Gly Trp Pro  
20 25 30  
Arg Arg Leu Ala Leu Ala Arg Gly Pro Val Leu Arg Gly Pro Gln Arg  
35 40 45  
Leu Thr Leu Gly Gln Ala Pro Ala Arg Arg Gly Arg Ser Pro Gly Leu  
50 55 60  
Pro Gly Arg His Val His Ile Ala Ile Ala Thr Arg Gln Leu Arg Leu  
65 70 75 80  
Gly Phe Thr Lys Ser Leu Pro  
85

<210> 2952  
<211> 22  
<212> PRT  
<213> Homo sapiens

<400> 2952  
Met Leu Met Pro Pro Pro Pro Pro Ala Arg Leu Phe Phe Leu Tyr Phe  
1 5 10 15  
Val Leu Phe Leu Leu Gly  
20

<210> 2953  
<211> 46  
<212> PRT  
<213> Homo sapiens

<400> 2953  
Met Arg Leu Gly Ile Ser Glu Leu Ser Phe Leu Leu Gly Ala Leu Gly  
1 5 10 15  
Tyr Leu Ser Leu Pro Arg Val Gly Pro Leu Glu Pro Phe Leu Pro Trp  
20 25 30  
Val Gly Ala Val Ser Gly Cys Trp Glu Gly Leu Cys Trp Pro  
35 40 45











[illegible]

Pro Leu Val Phe Val Ser Leu Phe Ser Pro Leu Ala Leu Pro Gly Ser  
20 25 30

Val Ser Val Ala Ala Gly His Thr Asp Arg Ser Gly Leu Gly Ser Val  
50 55 60

Lys Lys Leu Gln Asn Met Leu Glu Glu Gln Leu Thr Lys Asn Met His  
85 90 95

Lys Glu Cys Val Gly Pro Pro Asp Pro Asp Leu Glu Pro Gly Glu Thr  
115 120 125

Ser

<211> 66

<212> PRT

<213> Homo sapiens

Met Cys Cys Pro Ser Leu Leu Lys Phe Tyr Phe Arg Phe Ser Ile Gly  
1 5 10 15

Tyr Leu Phe Cys Phe Leu Tyr Phe Phe Ser Leu Ser Leu Pro Pro Ser  
20 25 30

Arg Pro Pro Arg Pro Ile Pro Phe Leu Pro Leu Asp Phe His Pro Leu  
35 40 45

Gly Cys Leu Ala His Leu Tyr Ala Pro Ala Leu Gly Thr Gly Pro Asn  
50 55 60

Thr Trp  
65

<211> 55

<212> PRT

<213> Homo sapiens

Met Ser Val Gly Leu Ser Ser Ser Phe Leu Ile Leu Phe Met Pro Cys  
1 5 10 15









Thr Gly Arg His Tyr Trp  
35

<210> 2981  
<211> 13  
<212> PRT  
<213> Homo sapiens

<400> 2981  
Gly Asn Ser Leu Thr Leu Ala Ile Leu Leu Leu Ser Phe  
1 5 10

<210> 2982  
<211> 59  
<212> PRT  
<213> Homo sapiens

<400> 2982  
Met Trp Arg Leu Ala Pro Arg Arg Leu Arg Gln Val His Ala Lys Pro  
1 5 10 15  
Ala Trp Leu Ser Ser Gly Phe Leu Leu Thr Arg Trp Met Pro Val Pro  
20 25 30  
Arg Pro Pro Asp Arg Ala Leu Gln His Trp Arg Gly Leu Trp Trp Gly  
35 40 45  
Pro Arg Cys Arg Thr Gly Thr Ala Ser Ala His  
50 55

<210> 2983  
<211> 670  
<212> PRT  
<213> Homo sapiens

<400> 2983  
Asp Cys Val Leu Val Leu Leu Leu Met Pro Arg Leu Ile Cys Lys Ala  
1 5 10 15  
Glu Leu Ile Arg Lys Gln Ala Gln Glu Lys Phe Glu Leu Ser Glu Asn  
20 25 30  
Cys Ser Glu Arg Pro Gly Leu Arg Gly Ala Ala Gly Glu Gln Leu Ser  
35 40 45  
Phe Ala Ala Gly Leu Val Tyr Ser Leu Ser Leu Leu Gln Ala Thr Leu  
50 55 60  
His Arg Tyr Glu His Ala Leu Ser Gln Cys Ser Val Asp Val Tyr Lys  
65 70 75 80  
Lys Val Gly Ser Leu Tyr Pro Glu Met Ser Ala His Glu Arg Ser Leu  
85 90 95  
Asp Phe Leu Ile Glu Leu Leu His Lys Asp Gln Leu Asp Glu Thr Val

		100					105					110				
Asn	Val	Glu 115	Pro	Leu	Thr	Lys	Ala 120	Ile	Lys	Tyr	Tyr	Gln 125	His	Leu	Tyr	
Ser	Ile 130	His	Leu	Ala	Glu	Gln 135	Pro	Glu	Asp	Cys	Thr 140	Met	Gln	Leu	Ala	
Asp 145	His	Ile	Lys	Phe	Thr 150	Gln	Ser	Ala	Leu	Asp 155	Cys	Met	Ser	Val	Glu 160	
Val	Arg	Arg	Leu	Arg 165	Ala	Phe	Leu	Gln	Gly 170	Gly	Gln	Glu	Ala	Thr 175	Asp	
Ile	Ala	Leu 180	Leu	Leu	Arg	Asp	Leu 185	Glu	Thr	Ser	Cys	Ser	Asp 190	Ile	Arg	
Gln	Phe	Cys 195	Lys	Lys	Ile	Arg	Arg 200	Arg	Met	Pro	Gly	Thr 205	Asp	Ala	Pro	
Gly 210	Ile	Pro	Ala	Ala	Leu	Ala 215	Phe	Gly	Pro	Gln	Val 220	Ser	Asp	Thr	Leu	
Leu 225	Asp	Cys	Arg	Lys	His 230	Leu	Thr	Trp	Val	Val 235	Ala	Val	Leu	Gln	Glu 240	
Val	Ala	Ala	Ala	Ala 245	Ala	Gln	Leu	Ile	Ala 250	Pro	Leu	Ala	Glu	Asn 255	Glu	
Gly	Leu	Leu 260	Val	Ala	Ala	Leu	Glu 265	Glu	Leu	Ala	Phe	Lys 270	Ala	Ser	Glu	
Gln	Ile 275	Tyr	Gly	Thr	Pro	Ser	Ser 280	Ser	Pro	Tyr	Glu	Cys 285	Leu	Arg	Gln	
Ser 290	Cys	Asn	Ile	Leu	Ile	Ser 295	Thr	Met	Asn	Lys	Leu 300	Ala	Thr	Ala	Met	
Gln 305	Glu	Gly	Glu	Tyr	Asp 310	Ala	Glu	Arg	Pro	Pro 315	Ser	Lys	Pro	Pro	Pro 320	
Val	Glu	Leu	Arg	Ala 325	Ala	Ala	Leu	Arg	Ala 330	Glu	Ile	Thr	Asp	Ala 335	Glu	
Gly	Leu	Gly 340	Leu	Lys	Leu	Glu	Asp 345	Arg	Glu	Thr	Val	Ile 350	Lys	Glu	Leu	
Lys	Lys 355	Ser	Leu	Lys	Ile	Lys	Gly 360	Glu	Glu	Leu	Ser	Glu 365	Ala	Asn	Val	
Arg 370	Leu	Ser	Leu	Leu	Glu	Lys 375	Lys	Leu	Asp	Ser	Ala 380	Ala	Lys	Asp	Ala	
Asp 385	Glu	Arg	Ile	Glu	Lys 390	Val	Gln	Thr	Arg	Leu 395	Glu	Glu	Thr	Gln	Ala 400	
Leu	Leu	Arg	Lys	Lys 405	Glu	Lys	Glu	Phe	Glu 410	Glu	Thr	Met	Asp	Ala 415	Leu	
Gln	Ala	Asp 420	Ile	Asp	Gln	Leu	Glu 425	Ala	Glu	Lys	Ala	Glu 430	Leu	Lys	Gln	

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Arg Leu Asn Ser Gln Ser Lys Arg Thr Ile Glu Gly Leu Arg Gly Pro  
435 440 445

Pro Pro Ser Gly Ile Ala Thr Leu Val Ser Gly Ile Ala Gly Gly Ala  
450 455 460

Ile Pro Gly Gln Ala Pro Gly Ser Val Pro Gly Pro Gly Leu Val Lys  
465 470 475 480

Asp Ser Pro Leu Leu Leu Gln Gln Ile Ser Ala Met Arg Leu His Ile  
485 490 495

Ser Gln Leu Gln His Glu Asn Ser Ile Leu Lys Gly Ala Gln Met Lys  
500 505 510

Ala Ser Leu Ala Ser Leu Pro Pro Leu His Val Ala Lys Leu Ser His  
515 520 525

Glu Gly Pro Gly Ser Glu Leu Pro Ala Gly Ala Leu Tyr Arg Lys Thr  
530 535 540

Ser Gln Leu Leu Glu Thr Leu Asn Gln Leu Ser Thr His Thr His Val  
545 550 555 560

Val Asp Ile Thr Arg Thr Ser Pro Ala Ala Lys Ser Pro Ser Ala Gln  
565 570 575

Leu Met Glu Gln Val Ala Gln Leu Lys Ser Leu Ser Asp Thr Val Glu  
580 585 590

Lys Leu Lys Asp Glu Val Leu Lys Glu Thr Val Ser Gln Arg Pro Gly  
595 600 605

Ala Thr Val Pro Thr Asp Phe Ala Thr Phe Pro Ser Ser Ala Phe Leu  
610 615 620

Arg Ala Lys Glu Glu Gln Gln Asp Asp Thr Val Tyr Met Gly Lys Val  
625 630 635 640

Thr Phe Ser Cys Ala Ala Gly Phe Gly Gln Arg His Arg Leu Val Leu  
645 650 655

Thr Gln Glu Gln Leu His Gln Leu His Ser Arg Leu Ile Ser  
660 665 670

<210> 2984

<211> 45

<212> PRT

<213> Homo sapiens

<400> 2984

Met Phe Phe Ser Gln Leu Asn Cys Cys Ile Ser Gln Thr Leu Gly Ser  
1 5 10 15

Met Lys Ala Gly Arg Gly Asn Leu Asn Ile Asn Tyr Glu His Lys Phe  
20 25 30

Glu Gly Lys Lys Thr Lys Asn His Tyr Leu Ile Lys Leu

35

40

45

<210> 2985  
 <211> 27  
 <212> PRT  
 <213> Homo sapiens

<400> 2985  
 Met Val Val His Ile Leu Trp Ser Trp Cys Cys Arg Gly Leu Ala Gly  
           1                  5                  10                  15  
 Thr Ala Ala Leu Pro Arg Val Leu Phe Tyr Phe  
                   20                  25

<210> 2986  
 <211> 56  
 <212> PRT  
 <213> Homo sapiens

<400> 2986  
 Met Gly Pro His Trp Gly Arg Glu Ala Ser Cys Phe Leu Trp Phe Pro  
           1                  5                  10                  15  
 Ala Gly Gln Ser Cys Pro Pro Phe Pro Val Leu Pro Thr Leu Gly Asn  
                   20                  25                  30  
 Arg Glu Gly Arg Arg Gly Glu Glu Arg Glu Asp Pro Gly Gly Leu Gly  
                   35                  40                  45  
 Arg Ser Ser Leu Lys Arg Leu Leu  
           50                  55

<210> 2987  
 <211> 60  
 <212> PRT  
 <213> Homo sapiens

<400> 2987  
 Met Met Ser Phe Val Trp Ser Arg Val Pro Tyr Cys Ile Leu Leu Trp  
           1                  5                  10                  15  
 Cys Phe Leu His Leu Cys Gln Pro Val Thr Val Ser Trp Ser Leu Ser  
                   20                  25                  30  
 Phe Met Thr Leu Thr Leu Trp Lys Ser Pro Gly Gln Leu Phe Tyr Arg  
                   35                  40                  45  
 Ile Phe Pro Ser Phe Ser Leu Phe Asn Val Phe Thr  
           50                  55                  60

<210> 2988  
 <211> 61  
 <212> PRT

<213> Homo sapiens

<400> 2988

Met Leu Val Val Ser Lys Ala Ser His Phe Thr Leu Phe Leu Asn Cys  
1 5 10 15

Leu Phe Leu Lys Ile Cys Leu Lys Lys Ile Leu Arg Trp Gln His Ile  
20 25 30

Gln Val Ala Thr Glu Gly Gly Val Thr Ser Asp Lys Leu Thr Ser Met  
35 40 45

Ser Leu Ala Asn Leu Asp Phe Trp Ser Gln Ala Pro Asp  
50 55 60

<210> 2989

<211> 31

<212> PRT

<213> Homo sapiens

<400> 2989

Met Pro Cys Arg Met Asp Arg Met Thr Asp Arg Asp Glu Ala Glu Thr  
1 5 10 15

Ser Thr Asp Pro Ser His Gln Val Glu Pro Phe Phe Phe Leu Phe  
20 25 30

<210> 2990

<211> 15

<212> PRT

<213> Homo sapiens

<400> 2990

Met Thr Arg Ala Ile Leu Cys Leu Leu Leu Cys Cys Pro Gly His  
1 5 10 15

<210> 2991

<211> 6

<212> PRT

<213> Homo sapiens

<400> 2991

Met Lys Ile Leu Val Leu  
1 5

<210> 2992

<211> 149

<212> PRT

<213> Homo sapiens

<400> 2992

Met Ala Tyr Thr Leu Leu Gly Leu Leu Trp Leu His Arg Gly Gly Ala  
1 5 10 15

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Val Gly Leu Gly Pro Arg Tyr Leu Lys Asp Val Phe Ala Ala Met Ala  
20 25 30

Leu Leu Tyr Gly Pro Val Gln Trp Leu Arg Leu Trp Thr Gln Trp Arg  
35 40 45

Arg Ala Ala Val Leu Asp Gln Trp Leu Thr Leu Pro Ile Phe Ala Trp  
50 55 60

Pro Val Ala Trp Cys Leu Tyr Leu Asn Arg Gly Trp Arg Pro Trp Leu  
65 70 75 80

Phe Leu Ser Leu Glu Cys Val Ser Leu Ala Ser Tyr Gly Leu Ser Leu  
85 90 95

Cys Ile Pro Arg Gly Phe Glu Val Ala Leu Gly Ala His Met Trp Pro  
100 105 110

Leu Trp Gly Arg Arg Cys Ala Pro Asn Arg His Tyr Gly Asn Thr Thr  
115 120 125

Ser Ala Thr Tyr Ser Pro Leu Gly Val Pro Leu Leu Pro Gly Leu Cys  
130 135 140

Gly Pro Gln Ala Val  
145

<210> 2993

<211> 23

<212> PRT

<213> Homo sapiens

<400> 2993

Met Lys Leu Asn Asn Lys Gln Cys His Leu Tyr Met Gly Thr Met Pro  
1 5 10 15

Ser Ser Ser Cys Cys Val Phe  
20

<210> 2994

<211> 58

<212> PRT

<213> Homo sapiens

<400> 2994

Leu Gln Leu Gly Leu Cys Cys Leu Pro Val Leu Phe Val Ala Leu Gly  
1 5 10 15

Met Ala Ser Asp Pro Ile Phe Thr Leu Ala Pro Pro Leu His Cys His  
20 25 30

Tyr Gly Ala Phe Pro Pro Asn Ala Ser Gly Trp Glu Gln Pro Pro Asn  
35 40 45

Ala Ser Gly Val Thr Ser Pro Ala Leu Pro  
50 55



<211> 38  
<212> PRT  
<213> Homo sapiens

<400> 2998  
Met Arg Ser Glu Gly Gly Arg Leu Ile Lys Thr Thr Lys Asn Ile Ile  
1 5 10 15  
Val Val Thr Leu Leu Phe Phe Phe Phe Cys Gly Gly Gly Asp Ser Thr  
20 25 30  
Ile Ile Lys Ile Gln Thr  
35

<210> 2999  
<211> 38  
<212> PRT  
<213> Homo sapiens

<400> 2999  
Met Arg Ser Glu Gly Gly Arg Leu Ile Lys Thr Thr Lys Asn Ile Ile  
1 5 10 15  
Val Val Thr Leu Leu Phe Phe Phe Phe Cys Gly Gly Gly Asp Ser Thr  
20 25 30  
Ile Ile Lys Ile Gln Thr  
35

<210> 3000  
<211> 27  
<212> PRT  
<213> Homo sapiens

<400> 3000  
Met Tyr Leu Asp Gln Ser Ser Leu Val Phe Leu Thr Leu Ala Met Ser  
1 5 10 15  
His Cys His Leu Met Gly Pro Ile Trp Val Leu  
20 25

<210> 3001  
<211> 32  
<212> PRT  
<213> Homo sapiens

<400> 3001  
Met Thr Gly Arg Gln Ser Leu Arg Pro Gly Cys Ala Leu Leu Leu Leu  
1 5 10 15  
Pro Ser Val Phe Ser Gln Leu Leu Ser Leu Gly Ala Pro Gly Ser Glu  
20 25 30





<210> 3006  
 <211> 8  
 <212> PRT  
 <213> Homo sapiens

<400> 3006  
 Met Cys Arg Trp Phe Val Ser Glu  
     1                    5

<210> 3007  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

<400> 3007  
 Met Phe Ser Gln Leu Leu Leu Tyr Cys Val Tyr Leu Tyr Cys Cys Arg  
     1                    5                    10                    15

Gly Gly Cys Phe  
                     20

<210> 3008  
 <211> 40  
 <212> PRT  
 <213> Homo sapiens

<400> 3008  
 Met Glu Leu Lys Lys Asn Val Phe Ser Val Ser Ser Leu Cys Thr Pro  
     1                    5                    10                    15

Ser His Tyr Ser Ser His Thr Leu His Phe Phe Phe Phe Phe Lys Ala  
                     20                    25                    30

Ala Leu Ile Gly Cys Tyr Ile Leu  
                     35                    40

<210> 3009  
 <211> 4  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (2)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 3009  
 Met Xaa Ser Tyr  
     1

<210> 3010  
<211> 38  
<212> PRT  
<213> Homo sapiens

<400> 3010  
Met Val Ala Arg Cys Phe Leu Thr Phe Leu Arg Val Asn Ser Leu Ser  
1 5 10 15  
Gln Gly Thr Val Glu Met Gly Val Trp Ser Gly Phe Pro Pro Gln Ser  
20 25 30  
Leu Leu Ile Thr Ala Gln  
35

<210> 3011  
<211> 1  
<212> PRT  
<213> Homo sapiens

<400> 3011  
Ile  
1

<210> 3012  
<211> 65  
<212> PRT  
<213> Homo sapiens

<400> 3012  
Met Arg Phe Phe Leu Phe Pro Tyr Tyr Cys Phe Ile Leu Ser Cys His  
1 5 10 15  
Ser Lys Leu Thr Phe Phe Gly Met Phe Phe Leu Tyr Leu Cys Pro Phe  
20 25 30  
Arg Ser Ala Leu Asp Ser Leu Gly Gly Leu Leu Gln Trp Val Cys Leu  
35 40 45  
Asn Ile Val Ile Pro His Val Ala Asp Trp Glu Thr Leu Leu Phe Asn  
50 55 60  
Trp  
65

<210> 3013  
<211> 40  
<212> PRT  
<213> Homo sapiens

<400> 3013  
Met Leu Ser Leu Ser Ser Leu Ser Arg Cys Lys Leu Tyr Val Tyr Trp  
1 5 10 15

Leu Cys Ser Leu Ile Leu Phe His Gly Lys Tyr Lys Gln Phe Ser Ala  
 20 25 30

Tyr Lys Tyr Trp Lys Lys Leu Ser  
 35 40

<210> 3014  
 <211> 15  
 <212> PRT  
 <213> Homo sapiens

<400> 3014  
 Met Phe Val Asp Val Ser Trp Phe Leu Val Phe Thr Leu Leu Pro  
 1 5 10 15

<210> 3015  
 <211> 39  
 <212> PRT  
 <213> Homo sapiens

<400> 3015  
 Met Ser His Phe Ser Cys Val Ile Leu Ile Leu Thr Gly Ile Arg Trp  
 1 5 10 15

His Gly Leu Val Phe Ser Gln Phe Gln Asn Ile Phe Leu His Cys Phe  
 20 25 30

Asn Val Lys Lys Met Lys Ile  
 35

<210> 3016  
 <211> 3  
 <212> PRT  
 <213> Homo sapiens

<400> 3016  
 Leu Leu Gly  
 1

<210> 3017  
 <211> 36  
 <212> PRT  
 <213> Homo sapiens

<400> 3017  
 Met Lys Leu Phe Leu Pro Arg Pro Leu Ser Ala Ala Arg Val Arg Gly  
 1 5 10 15

Leu Leu Phe Cys Ile Phe Ile Ala Leu Arg His Leu Val Leu Cys Asp  
 20 25 30

Tyr His Thr Tyr  
 35

<210> 3018  
 <211> 295  
 <212> PRT  
 <213> Homo sapiens

<400> 3018  
 Met Ala Ser Ile Ala Lys Gln Thr Ser Ser Leu Val Pro Pro Tyr Leu  
   1                  5                  10                  15  
 Gly Met Ile Leu Thr Ala Leu Leu Gln Gly Leu Ala Gly Arg Thr Trp  
                   20                  25                  30  
 Ala Gly Lys Glu Glu Leu Leu Lys Ala Ile Ala Cys Val Val Thr Ala  
           35                  40                  45  
 Cys Ser Ala Glu Leu Glu Lys Ser Val Pro Asn Gln Pro Ser Thr Asn  
   50                  55                  60  
 Glu Ile Leu Gln Ala Val Leu Lys Glu Cys Ser Lys Glu Asn Val Lys  
   65                  70                  75                  80  
 Tyr Lys Ile Val Ala Ile Ser Cys Ala Ala Asp Ile Leu Lys Ala Thr  
                   85                  90                  95  
 Lys Glu Asp Arg Phe Gln Glu Phe Ser Asn Ile Val Ile Pro Leu Ile  
           100                  105                  110  
 Lys Lys Asn Ser Leu Glu Ser Ser Gly Val Arg Thr Thr Lys Asn Glu  
           115                  120                  125  
 Glu Glu Asn Glu Lys Glu Lys Glu Leu Gln Leu Glu Tyr Leu Leu Gly  
   130                  135                  140  
 Ala Phe Glu Ser Leu Gly Lys Ala Trp Pro Arg Asn Ala Glu Thr Gln  
   145                  150                  155                  160  
 Arg Cys Tyr Arg Gln Glu Leu Cys Lys Leu Met Cys Glu Arg Leu Lys  
           165                  170                  175  
 Leu Ser Thr Trp Lys Val Gln Leu Gly Val Leu Gln Ser Met Asn Ala  
           180                  185                  190  
 Phe Phe Gln Gly Leu Met Leu Leu Glu Glu Glu His Ala Asp Pro Glu  
           195                  200                  205  
 Ala Leu Ala Glu Ile Leu Leu Glu Thr Cys Lys Ser Ile Thr Tyr Ser  
   210                  215                  220  
 Leu Glu Asn Lys Thr Tyr Ser Ser Val Arg Thr Glu Ala Leu Ser Val  
   225                  230                  235                  240  
 Ile Glu Leu Leu Leu Lys Lys Leu Glu Glu Ser Lys Gln Trp Glu Cys  
           245                  250                  255  
 Leu Thr Ser Glu Cys Arg Val Leu Leu Ile Glu Ser Leu Ala Thr Met  
           260                  265                  270  
 Glu Pro Asp Ser Arg Pro Glu Leu Gln Glu Lys Ala Ala Leu Leu Lys

275

280

285

Lys Thr Leu Glu Asn Leu Glu  
290 295

<210> 3019  
<211> 36  
<212> PRT  
<213> Homo sapiens

<400> 3019  
Met Gln Pro Pro Ile Ser Ser Tyr Ser Phe Leu Val Phe Trp Leu Thr  
1 5 10 15  
Val Gln Pro Cys Gly Phe Cys Ala Ala Ser Ser Ala Arg Lys Ile Lys  
20 25 30  
Pro Ser Phe Ser  
35

<210> 3020  
<211> 37  
<212> PRT  
<213> Homo sapiens

<400> 3020  
Met Leu Leu Leu Ser Thr Leu Tyr Leu Pro Ser Ala Leu Ser Arg Lys  
1 5 10 15  
Thr Phe Val Leu Leu Lys Thr Lys Asp Val Phe Ile Leu Asp Pro Glu  
20 25 30  
Glu Arg Ser Leu Leu  
35

<210> 3021  
<211> 34  
<212> PRT  
<213> Homo sapiens

<400> 3021  
Met Gly Gln Gly Ser His Leu Met Leu Val Phe Leu Ile Leu Tyr Tyr  
1 5 10 15  
Ile Val Leu Phe Met Ile Gln Leu Ile Leu Thr Lys Phe Val Ala Val  
20 25 30  
Glu Pro

<210> 3022  
<211> 34  
<212> PRT

<213> Homo sapiens

<400> 3022

Met Val Phe Thr Cys Pro His Gln Lys Pro Ala Leu Ser Arg Leu Leu  
1 5 10 15

Arg Leu Leu Leu Leu Asn Arg Ser Ala Ile Cys Ile Pro Gly Ala Pro  
20 25 30

Gln Gly

<210> 3023

<211> 6

<212> PRT

<213> Homo sapiens

<400> 3023

Ser Trp Leu Pro Pro Ile  
1 5

<210> 3024

<211> 16

<212> PRT

<213> Homo sapiens

<400> 3024

Val Ile Ile Ser Ser Val Phe Ser Phe Val Leu Leu Ser Cys Ile His  
1 5 10 15

<210> 3025

<211> 319

<212> PRT

<213> Homo sapiens

<400> 3025

Met Gln Thr Cys Pro Leu Ala Phe Pro Gly His Val Ser Gln Ala Leu  
1 5 10 15

Gly Thr Leu Leu Phe Leu Ala Ala Ser Leu Ser Ala Gln Asn Glu Gly  
20 25 30

Trp Asp Ser Pro Ile Cys Thr Glu Gly Val Val Ser Val Ser Trp Gly  
35 40 45

Glu Asn Thr Val Met Ser Cys Asn Ile Ser Asn Ala Phe Ser His Val  
50 55 60

Asn Ile Lys Leu Arg Ala His Gly Gln Glu Ser Ala Ile Phe Asn Glu  
65 70 75 80

Val Ala Pro Gly Ser Gly Arg Arg Gly Thr Ala Gly Asp Gln Arg Arg

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85

90

95

Pro Gly Leu Arg Ala Gly Ala Gln Gln Gly Leu Ser Arg Ala Ser Ala  
 100 105 110

Glu Leu Trp Thr Pro Asp Ser Glu Pro Thr Pro Arg Pro Leu Ala Leu  
 115 120 125

Val Phe Lys Pro Ser Pro Leu Gly Ala Leu Glu Leu Leu Ser Pro Gln  
 130 135 140

Pro Leu Phe His Met Pro Gln Thr His Ser Arg Leu Gln Gly Arg Glu  
 145 150 155 160

Asp Thr Gly Glu Pro Ala Leu Ser Ala Asp Leu Gly Trp Arg Gly Leu  
 165 170 175

Gly Leu Ser Ser His Pro Glu Gly Thr Asp Thr Gly Leu Leu Gly Arg  
 180 185 190

Leu Gly Leu Cys Val Thr His Ser Trp Val Arg Ala Asp Pro Ser Pro  
 195 200 205

Pro Pro Pro Arg Ser Ser Lys Leu Cys Phe Leu Ser Phe Gln Asn Gly  
 210 215 220

Thr Thr Ser Pro Pro Gln His Pro Thr Tyr Gln Asp Ala Cys Pro Ser  
 225 230 235 240

Leu Cys Pro His Gln Thr His Arg Pro Gly Leu Pro Phe Cys His Pro  
 245 250 255

Arg Leu Val Arg Pro Gln Val Trp Gly Pro Leu Ser Pro Leu Pro Gly  
 260 265 270

Leu Arg Ala Gln Val Arg Gly Pro Leu Pro Glu Pro Gln Thr His Ser  
 275 280 285

Ser Ser Gly Leu Trp Gly Ala Leu Ala Thr Tyr Leu Ser Leu Gly Tyr  
 290 295 300

Glu Gln Ala Leu Gly Ala Leu Pro Arg Gln Pro Arg Gly Pro Arg  
 305 310 315

<210> 3026

<211> 30

<212> PRT

<213> Homo sapiens

<400> 3026

Met Ser Ile Ser Val Phe Ser Leu Leu Leu Ser Phe Leu Ile Asp Gly  
 1 5 10 15

Ser Phe Ser Leu Leu Pro Arg Gly Cys Gln Asn Phe Ala Ser  
 20 25 30

<210> 3027



<211> 60  
 <212> PRT  
 <213> Homo sapiens

<400> 3027  
 Phe Tyr Ser Phe Phe Leu Pro His Lys Gly Leu Val Leu Phe Asn Tyr  
   1                  5                  10                  15  
 Thr Gly Ala Ser Ser Ser Phe Leu Phe Pro Ser Ser Glu Leu Pro Ala  
                   20                  25                  30  
 Glu Ile Leu Pro Gln Leu Ile Asp Lys Lys Ile Leu Ile Pro Arg Ser  
           35                  40                  45  
 Glu Phe Arg Asn Ile Leu Ile Asn Glu Ser Ser Cys  
       50                  55                  60

<210> 3028  
 <211> 49  
 <212> PRT  
 <213> Homo sapiens

<400> 3028  
 Met Ser Leu Thr Gln Glu Pro Arg Gly Arg Gln Arg Arg Thr Lys Val  
   1                  5                  10                  15  
 Ile Asn Leu His Leu Phe Leu Phe Leu Phe Phe Phe Phe Ser Ser  
                   20                  25                  30  
 Val Val Thr Ser Phe Pro Leu Ser Phe Phe Ile Leu Pro Gly Pro Leu  
           35                  40                  45  
 Pro

<210> 3029  
 <211> 8  
 <212> PRT  
 <213> Homo sapiens

<400> 3029  
 Met Thr Thr Trp Pro Thr Cys Ser  
   1                  5

<210> 3030  
 <211> 158  
 <212> PRT  
 <213> Homo sapiens

<400> 3030  
 Met Gly Ser Gln Ala Leu Pro Pro Gly Pro Met Gln Thr Leu Ile Phe  
   1                  5                  10                  15  
 Phe Asp Met Glu Ala Thr Gly Leu Pro Phe Ser Gln Pro Lys Val Thr  
           20                  25                  30

Glu Leu Cys Leu Leu Ala Val His Arg Cys Ala Leu Glu Ser Pro Pro  
35 40 45

Thr Ser Gln Gly Pro Pro Pro Thr Val Pro Pro Pro Pro Arg Val Val  
50 55 60

Asp Lys Leu Ser Leu Cys Val Ala Pro Gly Lys Ala Cys Ser Pro Ala  
65 70 75 80

Ala Ser Glu Ile Thr Gly Leu Ser Thr Ala Val Leu Ala Ala His Gly  
85 90 95

Arg Gln Cys Phe Asp Asp Asn Leu Ala Asn Leu Leu Leu Ala Phe Leu  
100 105 110

Arg Arg Gln His Ser Pro Gly Ala Trp Trp His Thr Met Val Thr Ala  
115 120 125

Thr Thr Ser Pro Cys Ser Lys Gln Ser Trp Leu Cys Trp Ala Ser Pro  
130 135 140

Val Leu Trp Met Val Pro Ser Val Trp Ile Ala Ser Leu Arg  
145 150 155

<210> 3031  
<211> 42  
<212> PRT  
<213> Homo sapiens

<400> 3031  
Met Ala Val Ala Ala Trp Val Met Ser Val Ser Leu His Leu Gly Phe  
1 5 10 15

Pro Trp Ala Leu Ser Arg Gln Arg His Pro Gln Ser His His His Cys  
20 25 30

Glu Ser Phe Gly Ser Phe Ser Ile Trp Ala  
35 40

<210> 3032  
<211> 22  
<212> PRT  
<213> Homo sapiens

<400> 3032  
Leu Ala Val Leu Leu Pro Gln Arg Val Leu Leu Ser Val Phe Leu Cys  
1 5 10 15

Leu Leu Pro Leu Gln Arg  
20

<210> 3033  
<211> 94  
<212> PRT



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1 5 10 15  
Gly Ser Gly Ile Ser Leu Phe Pro Tyr Leu Leu Ile Cys Leu Arg Gly  
20 25 30  
Arg Asn Ile His Tyr Ala Met Thr Ile Pro Val Leu Val Asn Val Pro  
35 40 45  
Val

<210> 3037  
<211> 31  
<212> PRT  
<213> Homo sapiens

<400> 3037  
Met Tyr Lys Glu Ile Pro Val Lys Leu Phe Cys Leu Met Phe Tyr Trp  
1 5 10 15  
Thr Lys Val Val Val Cys Met Glu Cys Ser Ser Ser Val Tyr Arg  
20 25 30

<210> 3038  
<211> 25  
<212> PRT  
<213> Homo sapiens

<400> 3038  
Arg Lys Trp Trp Pro Gln Asp Ile His Leu Thr Val Ala Val Ala Thr  
1 5 10 15  
Leu Trp Ser Ser Ser Gly His Gln Trp  
20 25

<210> 3039  
<211> 46  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (36)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 3039  
Met Asn Val Thr Val Thr Leu Pro Lys Tyr His Leu Ala Leu Ile Trp  
1 5 10 15  
Leu Leu Phe His Phe Gly Trp Ala Leu Leu Ser Val Cys Ser Lys Thr  
20 25 30  
Val Leu Met Xaa Leu Ser Asn Val His Asn Ala Val Ile Gly  
35 40 45

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<210> 3040  
<211> 49  
<212> PRT  
<213> Homo sapiens

<400> 3040  
Met Val Leu Val Thr Trp Pro Leu Phe Thr Ala Pro Phe Ala Ser Thr  
1 5 10 15  
Ser Cys Cys Ala Gly Leu Glu Val Ala Thr Met Ala Cys Phe Lys Glu  
20 25 30  
Gly Asn Ser Gly Thr Val Ala Pro Ser Gly Val Glu Asp Ser Glu Leu  
35 40 45  
Pro

<210> 3041  
<211> 34  
<212> PRT  
<213> Homo sapiens

<400> 3041  
Met Cys Val Thr Phe Leu Ser Ala Cys Cys Ile Tyr Ala Phe Tyr Leu  
1 5 10 15  
Leu Leu Phe Ser Leu Phe Ile Gln Val Thr Lys Arg Met Leu Glu Gln  
20 25 30  
Ala Trp

<210> 3042  
<211> 31  
<212> PRT  
<213> Homo sapiens

<400> 3042  
Met Lys Pro His Leu His Leu Pro Leu Leu Phe Leu Pro Thr Leu Ser  
1 5 10 15  
Asn Ile Thr Phe Thr Leu Asn Phe Ser Val Tyr Arg Lys Glu Asn  
20 25 30

<210> 3043  
<211> 32  
<212> PRT  
<213> Homo sapiens

<400> 3043  
Met Ile Gln His Val Val Phe Cys Val Trp Leu Leu Ser Phe Ser Ile  
1 5 10 15

Phe Lys Leu His Leu Ser Ser Ser Leu Cys Arg Tyr Cys Ile Ala Gly  
 20 25 30

<210> 3044  
 <211> 216  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (101)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 3044  
 Met Glu Met Arg Ser Val Leu Arg Lys Ala Gly Ser Pro Arg Lys Ala  
 1 5 10 15  
 Arg Arg Ala Arg Leu Asn Pro Leu Val Leu Leu Leu Asp Ala Ala Leu  
 20 25 30  
 Thr Gly Glu Leu Glu Val Val Gln Gln Ala Val Lys Glu Met Asn Asp  
 35 40 45  
 Pro Ser Gln Pro Asn Glu Glu Gly Ile Thr Ala Leu His Asn Ala Ile  
 50 55 60  
 Cys Gly Ala Asn Tyr Ser Ile Val Asp Phe Leu Ile Thr Ala Gly Ala  
 65 70 75 80  
 Asn Val Asn Ser Pro Asp Ser His Gly Trp Thr Pro Leu His Cys Ala  
 85 90 95  
 Ala Ser Cys Asn Xaa Thr Val Ile Cys Met Ala Leu Val Gln His Gly  
 100 105 110  
 Ala Ala Ile Phe Ala Thr Thr Leu Ser Asp Gly Ala Thr Ala Phe Glu  
 115 120 125  
 Lys Cys Asp Pro Tyr Arg Glu Gly Tyr Ala Asp Cys Ala Thr Tyr Leu  
 130 135 140  
 Ala Asp Val Glu Gln Ser Met Gly Leu Met Asn Ser Gly Ala Val Tyr  
 145 150 155 160  
 Ala Leu Trp Asp Tyr Ser Ala Glu Phe Gly Asp Glu Leu Ser Phe Arg  
 165 170 175  
 Glu Gly Glu Ser Val Thr Val Leu Arg Arg Asp Gly Pro Glu Arg Pro  
 180 185 190  
 Thr Gly Gly Gly Pro Arg Cys Thr Ala Arg Arg Ala Thr Cys Arg Gly  
 195 200 205  
 Thr Thr Ser Gly Cys Ser Pro Gly  
 210 215

095003.04304

<210> 3045  
<211> 36  
<212> PRT  
<213> Homo sapiens

<400> 3045  
Met Leu Leu Trp Leu Trp Ser Gly Pro Gly Met Ala Val Gly Pro Cys  
1 5 10 15  
Arg Gly Val Ala Leu Leu Ala Arg Ser Gly Met Cys Ser Ala Glu Ala  
20 25 30  
Val Asn Ser Trp  
35

<210> 3046  
<211> 59  
<212> PRT  
<213> Homo sapiens

<400> 3046  
Met Cys Val Cys Val Tyr Val Cys Ala Cys Leu Cys Pro Arg Pro Cys  
1 5 10 15  
Val Pro His Thr Ala Pro Leu Ser Ser Val Leu Pro Arg Asp Pro Ser  
20 25 30  
Glu Leu Ala Cys Gly Ala Arg Glu Ala Pro Trp Met Gly Gly Gly Ala  
35 40 45  
Thr Gly Arg Leu Glu Gly Leu His Gln Ala His  
50 55

<210> 3047  
<211> 55  
<212> PRT  
<213> Homo sapiens

<400> 3047  
Met Glu Phe Phe Pro Arg Gly Gln Leu Leu Leu Leu Ser Phe Ile Met  
1 5 10 15  
Ile Leu Thr Phe Trp Val Lys Gln Gly Gly Trp Glu Arg Trp Ser Asp  
20 25 30  
Val Lys Tyr Asn Leu Leu Gly Gly Thr Val Asn Cys Glu Val Val Arg  
35 40 45  
Lys Lys Ile Lys Thr Ser Tyr  
50 55

<210> 3048









<400> 3051

Met Phe Cys Trp Cys Gly Leu Cys Thr Ser Gly Met Val Thr Thr Gly  
1 5 10 15

Gly Ser Pro Gln Lys His Ser Phe Phe Tyr Thr Ser Ser Gln Gly His  
20 25 30

Val Ser Cys Pro Ser Leu Pro Gly Cys Gly Gln Lys Val Ile Cys Ser  
35 40 45

Trp Pro Ser Gly Gly Gly Gly Gly Pro Glu Ser Glu Glu Met Ala Gln  
50 55 60

Gly Gln  
65

<210> 3052

<211> 66

<212> PRT

<213> Homo sapiens

<400> 3052

Met Phe Cys Trp Cys Gly Leu Cys Thr Ser Gly Met Val Thr Thr Gly  
1 5 10 15

Gly Ser Pro Gln Lys His Ser Phe Phe Tyr Thr Ser Ser Gln Gly His  
20 25 30

Val Ser Cys Pro Ser Leu Pro Gly Cys Gly Gln Lys Val Ile Cys Ser  
35 40 45

Trp Pro Ser Gly Gly Gly Gly Gly Pro Glu Ser Glu Glu Met Ala Gln  
50 55 60

Gly Gln  
65

<210> 3053

<211> 29

<212> PRT

<213> Homo sapiens

<400> 3053

Gly Phe Leu Gly Ile Leu Tyr Leu Thr Ile Phe Ile Leu Tyr Gln Thr  
1 5 10 15

His Leu Gln Phe Leu Gly Leu Leu Val Lys Thr Phe Phe  
20 25

<210> 3054

<211> 83

<212> PRT

<213> Homo sapiens

<400> 3054

Pro Pro Asp Ser Arg Lys Val Leu Arg Leu Asn Gly Val Ser Ser Val  
 1 5 10 15  
 Tyr Ala Ala Leu Ala Leu His Leu Arg Val Pro Gly Arg His Leu Ser  
 20 25 30  
 Leu Gly Phe Ile Phe His Gly Asp Met Thr Cys Trp Leu Lys His Tyr  
 35 40 45  
 Ser Val Leu Phe Leu Val Gly Thr Gly Thr Glu Leu Glu Leu Phe Trp  
 50 55 60  
 Ser Val Pro Ser Tyr Leu Lys Met Leu Cys Cys Thr Ile Ile Leu Lys  
 65 70 75 80

Asn Tyr Lys

<210> 3055  
 <211> 61  
 <212> PRT  
 <213> Homo sapiens

<400> 3055  
 Met Pro Pro Asn Ala Leu Leu Leu Ser Ser Val Leu Asn Phe Phe Leu  
 1 5 10 15  
 Leu Thr Ser Phe Val Cys Asn Val Lys Arg Val Glu Lys His His Ser  
 20 25 30  
 Ser Gln Met Tyr Ser Phe Cys Met Lys Lys Thr Glu Ile Tyr Ile Ala  
 35 40 45  
 Gly Ser Gly Ile Cys Pro Val Ser Tyr Ser Trp Leu Val  
 50 55 60

<210> 3056  
 <211> 36  
 <212> PRT  
 <213> Homo sapiens

<400> 3056  
 Cys Val Cys Val Phe Ile Cys Phe Leu Pro Ser Gln Phe Phe Ser Pro  
 1 5 10 15  
 Leu Pro Thr Thr Thr Met Thr Pro Ser Arg Glu Thr Ile Asn Val Pro  
 20 25 30  
 Ile Met Phe Val  
 35

<210> 3057  
 <211> 61  
 <212> PRT  
 <213> Homo sapiens

<400> 3057

Met Thr Ile Met Phe Pro Gln Leu Phe Tyr Phe Pro Thr Ser Phe Ala  
1 5 10 15

Val Leu Ser Val Ala Gly Arg Arg Lys Cys Cys Trp Leu Ala Gln Lys  
20 25 30

Lys Leu Leu Leu Leu Arg Leu Leu Leu Leu Ser Ala Ile Ser Val Thr  
35 40 45

Ile Glu Thr Gly Ala Val Tyr Ala Arg Gly Ala Gly Ser  
50 55 60

<210> 3058

<211> 7

<212> PRT

<213> Homo sapiens

<400> 3058

Met Gly Cys Ile Ile Ala Thr  
1 5

<210> 3059

<211> 11

<212> PRT

<213> Homo sapiens

<400> 3059

Met Phe Ser Pro His Met Tyr Ile Cys His Met  
1 5 10

<210> 3060

<211> 16

<212> PRT

<213> Homo sapiens

<400> 3060

Met Arg Met Cys Val Cys Thr Ser Leu Ser Leu Cys Gly Met Cys Val  
1 5 10 15

<210> 3061

<211> 47

<212> PRT

<213> Homo sapiens

<400> 3061

Met Ser Ser Arg Pro Val Leu Trp Leu Met Leu Leu Val Gly Trp Met  
1 5 10 15

Trp Ile Lys Lys Leu Cys Asn Thr Gly Gly Thr Gln Met Cys Leu Gly  
 20 25 30

Leu Gly Thr Ala Pro Thr Phe Leu Arg Gln Arg Pro Leu Leu Gln  
 35 40 45

<210> 3062  
 <211> 31  
 <212> PRT  
 <213> Homo sapiens

<400> 3062  
 Met Thr Ser Ala Phe Leu Ile His Leu Thr Leu Val Leu Val Pro Thr  
 1 5 10 15

Val Asn Lys Thr Gln Thr Leu Gly Ser Lys Ile Ser Cys Ser Arg  
 20 25 30

<210> 3063  
 <211> 8  
 <212> PRT  
 <213> Homo sapiens

<400> 3063  
 Ser Trp Leu Lys Lys Leu Tyr Phe  
 1 5

<210> 3064  
 <211> 42  
 <212> PRT  
 <213> Homo sapiens

<400> 3064  
 Met Glu Val Leu Gln Ser Val Leu Leu Leu Leu Phe Ser Ser Leu  
 1 5 10 15

Ile Ser Ser Val Phe Leu Ile Ser Val Val Ile Ser Gly Gln Leu Met  
 20 25 30

Ala Ala Gln Gly Thr Gly Ile Cys Leu Ala  
 35 40

<210> 3065  
 <211> 19  
 <212> PRT  
 <213> Homo sapiens

<400> 3065  
 Met Phe Thr Leu Leu Phe Phe Leu Val Thr Tyr Ile Leu Ile Thr Gly  
 1 5 10 15

Met Leu Lys

<210> 3066  
 <211> 39  
 <212> PRT  
 <213> Homo sapiens

<400> 3066  
 Met Leu Gln Leu Phe Leu Ala Ser Phe Ile Val Leu Leu Gln Ile Leu  
 1 5 10 15  
 Ile Pro Phe Val Leu Val Met Cys Ala Phe Glu Ala Val Gln Leu Thr  
 20 25 30  
 Thr Gln Leu Ser Ser Lys Arg  
 35

<210> 3067  
 <211> 305  
 <212> PRT  
 <213> Homo sapiens

<400> 3067  
 Met Glu Ser His Val Phe Leu Lys Ala Lys Thr Arg Asp Glu Tyr Leu  
 1 5 10 15  
 Ser Leu Val Ala Arg Leu Ile Ile His Phe Arg Asp Ile His Asn Lys  
 20 25 30  
 Lys Ser Gln Ala Ser Val Ser Asp Pro Met Asn Ala Leu Gln Ser Leu  
 35 40 45  
 Thr Gly Gly Pro Ala Ala Gly Ala Ala Gly Ile Gly Met Pro Pro Arg  
 50 55 60  
 Gly Pro Gly Gln Ser Leu Gly Gly Met Gly Ser Leu Gly Ala Met Gly  
 65 70 75 80  
 Gln Pro Met Ser Leu Ser Gly Gln Pro Pro Pro Gly Thr Ser Gly Met  
 85 90 95  
 Ala Pro His Ser Met Ala Val Val Ser Thr Ala Thr Pro Gln Thr Gln  
 100 105 110  
 Leu Gln Leu Gln Gln Val Ala Leu Gln Gln Gln Gln Gln Gln Gln  
 115 120 125  
 Phe Gln Gln Gln Gln Gln Ala Ala Leu Gln Gln Gln Gln Gln Gln  
 130 135 140  
 Gln Gln Gln Gln Phe Gln Ala Gln Gln Ser Ala Met Gln Gln Gln Phe  
 145 150 155 160  
 Gln Ala Val Val Gln Gln Gln Gln Gln Leu Gln Gln Gln Gln Gln  
 165 170 175  
 Gln Gln His Leu Ile Lys Leu His His Gln Asn Gln Gln Gln Ile Gln  
 180 185 190





His Ile Leu Phe Ser  
20

<210> 3071  
<211> 25  
<212> PRT  
<213> Homo sapiens

<400> 3071  
Met Lys Gly Ala Asp Lys Ser Ser Thr Leu Ile Leu Cys Phe Leu Ser  
1 5 10 15

Val Leu Pro Cys Cys His Leu His Gly  
20 25

<210> 3072  
<211> 25  
<212> PRT  
<213> Homo sapiens

<400> 3072  
Met Lys Gly Ala Asp Lys Ser Ser Thr Leu Ile Leu Cys Phe Leu Ser  
1 5 10 15

Val Leu Pro Cys Cys His Leu His Gly  
20 25

<210> 3073  
<211> 39  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (2)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 3073  
Met Xaa His Leu Gly Leu Trp Gly Val Ile Leu Lys Leu Val Val Pro  
1 5 10 15

Gly Asn His Gly Pro Leu Ala Leu Ile Asn Pro Ser Phe Asn Gly Leu  
20 25 30

Leu His Pro Asp Thr Lys Val  
35

<210> 3074  
<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 3074

Met Glu Phe Leu Ser Leu Glu Leu Ala  
1 5

<210> 3075  
<211> 44  
<212> PRT  
<213> Homo sapiens

<400> 3075  
Met Ile Arg Leu Ser Ala Met Leu Leu Val Glu Met His Val Asn Leu  
1 5 10 15

Pro Ala Ser Leu Ser Val Phe Leu Asp Ser Gly Gln Leu Lys Ser Pro  
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Asn Thr Phe Thr Phe Ala Thr Gln Arg Gly Ser Ser  
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<210> 3076  
<211> 39  
<212> PRT  
<213> Homo sapiens

<400> 3076  
Met Val Phe Ile Phe Leu Leu Ser Ile Leu Phe Val Ser Ala Leu Val  
1 5 10 15

Phe Ile Thr Ser Phe Leu Leu Leu Ala Leu Asp Leu Ala Cys Ser Ser  
20 25 30

Leu Phe Arg Phe Leu Val Val  
35

<210> 3077  
<211> 46  
<212> PRT  
<213> Homo sapiens

<400> 3077  
Met Asp Gly Trp His Glu Ile Leu Lys Lys Ile Leu Leu Leu Phe Gln  
1 5 10 15

Lys Cys His Ser Ser Pro Leu Lys Val Gln Glu Thr Trp Leu Ser Ser  
20 25 30

Val Val Tyr Gly Gly Ala Trp Ala Ser Glu Ser Gly Gln Arg  
35 40 45

<210> 3078  
<211> 95  
<212> PRT  
<213> Homo sapiens

<400> 3078

Met Phe His Val Leu Met Ala Gln Val Thr Thr Val Ile Ile Thr Thr  
1 5 10 15  
Val Ser Val Leu Val Phe Asp Phe Arg Pro Ser Leu Glu Phe Phe Leu  
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Glu Ala Pro Ser Val Leu Leu Ser Ile Phe Ile Tyr Asn Ala Ser Lys  
35 40 45  
Pro Gln Val Pro Glu Tyr Ala Pro Arg Gln Glu Arg Ile Arg Asp Leu  
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Ser Gly Asn Leu Trp Glu Arg Ser Ser Gly Asp Gly Glu Glu Leu Glu  
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Arg Leu Thr Lys Pro Lys Ser Asp Glu Ser Asp Glu Asp Thr Phe  
85 90 95

<210> 3079

<211> 194

<212> PRT

<213> Homo sapiens

<400> 3079

Met Leu Ala Ala Val Gly Arg Pro Lys Pro Arg Ser Pro Leu Ser Ser  
1 5 10 15  
Leu Ser Thr Leu Gln Leu Tyr Leu Phe Cys Ser Ser Thr Arg Arg Ala  
20 25 30  
Asp Met Asp Pro Asn Pro Arg Ala Ala Leu Glu Arg Gln Gln Leu Arg  
35 40 45  
Leu Arg Glu Arg Gln Lys Phe Phe Glu Asp Ile Leu Gln Pro Glu Thr  
50 55 60  
Glu Phe Val Phe Pro Leu Ser His Leu His Leu Glu Ser Gln Arg Pro  
65 70 75 80  
Pro Ile Gly Ser Ile Ser Ser Met Glu Val Asn Val Asp Thr Leu Glu  
85 90 95  
Gln Val Glu Leu Ile Asp Leu Gly Asp Pro Asp Ala Ala Asp Val Phe  
100 105 110  
Leu Pro Cys Glu Asp Pro Pro Pro Thr Pro Gln Ser Ser Gly Val Asp  
115 120 125  
Asn His Leu Glu Glu Leu Ser Leu Pro Val Pro Thr Ser Asp Arg Thr  
130 135 140  
Thr Ser Arg Thr Ser Ser Ser Ser Ser Ser Asp Ser Ser Thr Asn Leu  
145 150 155 160  
His Ser Pro Asn Pro Ser Asp Asp Gly Ala Asp Thr Pro Leu Ala Gln  
165 170 175  
Ser Asp Glu Glu Glu Glu Arg Gly Asp Gly Gly Ala Glu Pro Gly Ala

180

185

190

Cys Ser

&lt;210&gt; 3080

&lt;211&gt; 22

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3080

Met Gly Val Arg Ser Arg Ala Trp Ala Phe Leu Thr Phe Thr Ser Thr  
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Leu Ala Thr Arg Ser Arg  
 20

&lt;210&gt; 3081

&lt;211&gt; 58

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3081

Met Pro Gly Val Gly Trp Ala Gln Ala Leu Lys Ser Pro Phe Cys Leu  
 1 5 10 15

Val Val Leu His Leu Ala Leu Pro Gly Leu Trp Cys Arg Leu Gly Val  
 20 25 30

Asp Leu Ser Ser Val Ile Tyr Val Cys Cys Leu Ala Pro Arg Trp Leu  
 35 40 45

Cys Gly Gln Val Leu Ala Lys Asp Ile Ile  
 50 55

&lt;210&gt; 3082

&lt;211&gt; 58

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3082

Met Pro Gly Val Gly Trp Ala Gln Ala Leu Lys Ser Pro Phe Cys Leu  
 1 5 10 15

Val Val Leu His Leu Ala Leu Pro Gly Leu Trp Cys Arg Leu Gly Val  
 20 25 30

Asp Leu Ser Ser Val Ile Tyr Val Cys Cys Leu Ala Pro Arg Trp Leu  
 35 40 45

Cys Gly Gln Val Leu Ala Lys Asp Ile Ile  
 50 55

00550003.094004

<210> 3083  
 <211> 58  
 <212> PRT  
 <213> Homo sapiens

<400> 3083  
 Met Pro Gly Val Gly Trp Ala Gln Ala Leu Lys Ser Pro Phe Cys Leu  
 1 5 10 15  
 Val Val Leu His Leu Ala Leu Pro Gly Leu Trp Cys Arg Leu Gly Val  
 20 25 30  
 Asp Leu Ser Ser Val Ile Tyr Val Cys Cys Leu Ala Pro Arg Trp Leu  
 35 40 45  
 Cys Gly Gln Val Leu Ala Lys Asp Ile Ile  
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<210> 3084  
 <211> 443  
 <212> PRT  
 <213> Homo sapiens

<400> 3084  
 Met Ala His His Leu Tyr Val Leu Gln Ala Leu Met Leu Gly Leu Leu  
 1 5 10 15  
 Glu Pro Arg Met Arg Thr Pro Leu Asp Pro Tyr Ser Gln Glu Gln Arg  
 20 25 30  
 Glu Gln Leu Gln Val Leu Arg Gln Ala Ala Phe Glu Val Glu Gly Glu  
 35 40 45  
 Ser Ser Gly Ala Gly Leu Ser Ala Asp Arg Arg Arg Ser Leu Cys Ala  
 50 55 60  
 Arg Glu Phe Arg Lys Leu Gly Phe Ser Asn Ser Asn Pro Ala Gln Asp  
 65 70 75 80  
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 85 90 95  
 Phe Ser Arg Asn Ala Pro Ser Ala Tyr Ser Arg Phe Val Leu Glu Asn  
 100 105 110  
 Ser Ser Arg Glu Asp Lys His Glu Cys Pro Phe Ala Arg Gly Ser Ile  
 115 120 125  
 Gln Leu Thr Val Leu Leu Cys Glu Leu Leu Arg Val Gly Glu Pro Cys  
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 Ser Glu Thr Ala Gln Asp Phe Ser Pro Met Phe Phe Gly Gln Asp Gln  
 145 150 155 160  
 Ser Phe His Glu Leu Phe Cys Val Gly Ile Gln Leu Leu Asn Lys Thr  
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 Trp Lys Glu Met Arg Ala Thr Gln Glu Asp Phe Asp Lys Val Met Gln  
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20

25

30

<210> 3086  
 <211> 31  
 <212> PRT  
 <213> Homo sapiens

<400> 3086  
 Met Leu Leu Pro Leu Cys Trp Ser Ser Ser Tyr Ser Ile Phe Ile Phe  
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Trp Ala Thr Glu Arg Asp Ser Cys Leu Glu Lys Lys Lys Lys Lys  
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<210> 3087  
 <211> 32  
 <212> PRT  
 <213> Homo sapiens

<400> 3087  
 Leu Ile Val Leu Leu Val Val Phe Leu Pro Gln Ser Ser Asp Ser Ser  
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Ser Ala Pro Arg Thr Gln Asp Ala Gly Ile Ala Ser Gly Pro Gly Asn  
                   20                  25                  30

<210> 3088  
 <211> 51  
 <212> PRT  
 <213> Homo sapiens

<400> 3088  
 Met Pro Gly Arg Arg Pro Pro Leu Ala Met Trp Gln Pro Leu Leu Leu  
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Cys Leu Thr Ser Ala Phe Gln Arg Ala Pro Ile Leu Leu Ser His Lys  
                   20                  25                  30

Ile Asn Leu Met Pro Ser Gly Lys Lys Lys Lys Lys Lys Lys Lys  
           35                  40                  45

Lys Lys Lys  
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<210> 3089  
 <211> 37  
 <212> PRT  
 <213> Homo sapiens

<400> 3089

Met Pro Arg Pro Ala Cys Leu Leu Ile Phe Ile Ser Gly His Thr Leu  
 1 5 10 15  
 Leu Ala Leu Pro Val Cys Pro Ala Pro Ala His Ala Pro Pro Arg  
 20 25 30  
 Ala Ala Ser Val Leu  
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<210> 3090  
 <211> 59  
 <212> PRT  
 <213> Homo sapiens

<400> 3090  
 Met Thr Arg Leu Leu Val Ala Leu Leu Phe Ser Ser Phe Leu Lys Leu  
 1 5 10 15  
 Arg Glu Val Glu Ser Ile Ser Lys Ile Lys Asn Lys Met Ser Lys Arg  
 20 25 30  
 Gln Asp Leu Arg Thr Gly Trp Ala Cys Ser Asn Met Thr Ala Cys Thr  
 35 40 45  
 Leu Trp Gly Lys Ile Tyr Trp Ser Ser Gln Val  
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<210> 3091  
 <211> 39  
 <212> PRT  
 <213> Homo sapiens

<400> 3091  
 Lys Ala Ala Leu Ser Gly Ser Glu Ile Met Cys His Phe Trp Trp Val  
 1 5 10 15  
 Ala Gly Pro Ala Ile Ala Asn Tyr His Lys Gln Lys Cys Ile Leu Leu  
 20 25 30  
 Tyr Asn Ser Gly Gly Lys Val  
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<210> 3092  
 <211> 120  
 <212> PRT  
 <213> Homo sapiens

<400> 3092  
 Gln Gly Arg Val Val Pro Val His Leu Val Leu Leu Pro Gly Val Leu  
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 Ile Pro His Gly Pro Pro Met Cys Gly Pro Asp Pro Lys Tyr Pro Gln  
 20 25 30  
 Asp Asn His Glu His Gln Glu Ala Asp Ala His His Asp His Asn Cys



45

His Val Leu Leu His Ser Cys Gly  
115 120

Phe Trp Gly Xaa Xaa Val Gly Gly Xaa Ala Leu Pro Ser  
35 40 45

Ser Cys Pro Leu

<210> 3095  
 <211> 44  
 <212> PRT  
 <213> Homo sapiens

<400> 3095  
 Met Pro Ile Thr Tyr Pro Phe Cys Ile Leu Glu Ile Ile Ile Ile Leu  
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 Tyr Cys Leu Pro Pro Ser Pro Val Phe Gly Thr Leu Glu Ser Thr Thr  
                   20                  25                  30  
 Asn Cys Leu Tyr Glu Lys Lys Lys Lys Lys Asn Ser  
                   35                  40

<210> 3096  
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 <212> PRT  
 <213> Homo sapiens

<400> 3096  
 Met Ala Leu Asn Thr Ile Ser His Gln Ile Tyr Leu Pro Pro Gly Pro  
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 Leu Pro Cys Pro Trp Ala Ser Cys Ile Leu Leu Pro Thr Cys Thr Tyr  
                   20                  25                  30  
 Val Trp Thr  
           35

<210> 3097  
 <211> 33  
 <212> PRT  
 <213> Homo sapiens

<400> 3097  
 Thr Lys Pro Pro Leu Ser Val Leu Phe Trp Gly Val Gly Trp Val Cys  
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 Val Trp Gly Trp Val Gly Met Gly Asn Pro Ser Pro Ser Arg Ser Trp  
                   20                  25                  30  
 Gly

<210> 3098  
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 <212> PRT  
 <213> Homo sapiens

<400> 3098

Met Ile Ile Leu Asn Thr Ile Lys Val Leu Ile Leu Phe Val Phe Val  
 1 5 10 15  
 Phe Met Met Cys Asp Asn Ile Leu Gly Ile Thr Gln Lys Glu Leu Tyr  
 20 25 30  
 Phe Phe Lys Lys Phe Thr Phe  
 35

<210> 3099  
 <211> 29  
 <212> PRT  
 <213> Homo sapiens

<400> 3099  
 Met Trp Leu Gln Gly Leu Pro Ala Ala Ile Leu His Ala Ala Gly Ser  
 1 5 10 15  
 Ala Phe His Asp Pro Arg Gln Gln Pro Gly Pro His Ser  
 20 25

<210> 3100  
 <211> 33  
 <212> PRT  
 <213> Homo sapiens

<400> 3100  
 Met Ile Gly Cys Val Ile Pro Tyr Ile Leu Ile Leu Asn Tyr Ile Ile  
 1 5 10 15  
 Gly Gly Ser Phe Cys Phe Thr Leu Met Cys Pro Gly Asp Ser Cys Leu  
 20 25 30

Ala

<210> 3101  
 <211> 48  
 <212> PRT  
 <213> Homo sapiens

<400> 3101  
 Met Met Val Ile Val Cys Val Ile Val Gln Lys Ala Leu Ser Val Pro  
 1 5 10 15  
 Ser Pro Leu Gln Gly Thr Leu Leu Thr Pro Ile Leu Gln Gly Leu Leu  
 20 25 30  
 Gln Met Pro Phe Ser Pro Gly Lys Pro Phe Arg Ile Leu Ser Trp Ile  
 35 40 45

<210> 3102  
 <211> 49  
 <212> PRT  
 <213> Homo sapiens

<400> 3102  
 Met His Thr His Gly Ser Cys Leu Ser Met His Trp Phe Cys His Trp  
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 Arg Pro Gly Ile Arg Pro Cys Trp Gly Ala Gly Ala Val Arg Leu Arg  
                   20                  25                  30  
 Leu Ile Leu Ala Arg Ala His Thr Ser Lys Gly Gln Ala Gly Ser Ala  
                   35                  40                  45

Trp

<210> 3103  
 <211> 34  
 <212> PRT  
 <213> Homo sapiens

<400> 3103  
 Met Ala Ala Cys Cys Ser Ala Leu Leu Leu Leu Phe Pro Pro Cys Phe  
           1                  5                  10                  15  
 His Leu Cys Ser Leu Glu Ala Phe Pro Ser Trp Cys Val Gln Asp Ser  
                   20                  25                  30

Ser Trp

<210> 3104  
 <211> 34  
 <212> PRT  
 <213> Homo sapiens

<400> 3104  
 Met Ala Ala Cys Cys Ser Ala Leu Leu Leu Leu Phe Pro Pro Cys Phe  
           1                  5                  10                  15  
 His Leu Cys Ser Leu Glu Ala Phe Pro Ser Trp Cys Val Gln Asp Ser  
                   20                  25                  30

Ser Trp

<210> 3105  
 <211> 21  
 <212> PRT  
 <213> Homo sapiens

<400> 3105

Leu Leu Leu His Ser Val His Leu Leu Leu Tyr Glu Met Thr Leu Arg  
 1 5 10 15

Pro Pro Ile Leu Leu  
 20

<210> 3106  
 <211> 36  
 <212> PRT  
 <213> Homo sapiens

<400> 3106  
 Met Thr Gln Asn Asp Leu Ala Ala Val Leu Leu Arg Trp Arg Arg Pro  
 1 5 10 15

Gly Leu Gly Trp Cys Ser Arg Leu Leu Thr Ala Cys Cys Leu Pro Thr  
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Leu Pro Ala Ser  
 35

<210> 3107  
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<400> 3107  
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<210> 3108  
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 <212> PRT  
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<400> 3108  
 Pro Gln Val Val Cys Arg Val Val Phe Thr Pro Cys Gln Ser Pro His  
 1 5 10 15

Ser Pro Ala Arg Gln Thr Val Phe Asn Ser Phe His Gly  
 20 25

<210> 3109  
 <211> 49  
 <212> PRT  
 <213> Homo sapiens

<400> 3109  
 Glu Trp Gly Gly Leu Arg Lys Leu Ile Ile Cys Ala Cys Phe Pro Phe  
 1 5 10 15

Thr Phe Cys His Asp Cys Lys Phe Leu Lys Pro Pro Gln Pro Phe Leu  
 20 25 30

Thr Ala Asn Arg Thr Val Ser Lys Ser Asn Phe Leu Ser Phe Ser Leu  
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Arg

<210> 3110  
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<400> 3110  
 Cys Leu Gln Ile Ala Ser Cys Phe Pro Phe Cys Gln Ile Leu Ile Ile  
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           20                  25                  30  
 Phe His Ile Val  
           35

<210> 3111  
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<400> 3111  
 Met Lys Thr Phe Val Cys Ala Phe Asp Leu  
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<210> 3112  
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<400> 3112  
 Met Lys Met Thr Phe Met Tyr Gly Arg Leu Thr Phe Phe Leu Ser Leu  
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 Pro Thr Leu Tyr Leu Cys Tyr Phe Tyr Leu Pro Asn Lys Ile Pro  
           20                  25                  30

<210> 3113  
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<400> 3113

Met Ile Trp Ser Ala Gly Arg Trp Thr Tyr Ala Val Leu Phe His Cys  
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Cys Gln Thr Leu Leu Pro Trp Lys Xaa Pro Leu Glu Lys Val Trp His  
20 25 30

His Gln Asp Gly Gln Val Gly Ser Gly Leu Ser Val Gln Pro Arg Thr  
35 40 45

Gln Pro Pro Val Ser Trp Leu Ala Val Pro Gly Leu Ala Pro Phe Gln  
50 55 60

Gln Leu Ser Arg Pro Gly Arg Ser Gly Leu Ser Cys Ser Asp Ser Tyr  
65 70 75 80

Ser Leu Ile Leu

<210> 3114

<211> 46

<212> PRT

<213> Homo sapiens

<400> 3114

Met Gln Val Lys Val Pro Ser Gly Arg Leu Ala Val Thr Pro Phe Arg  
1 5 10 15

Leu Leu Ala Val Ala Leu Trp Thr Val Ser Phe Leu Pro Leu Pro Leu  
20 25 30

Arg Arg Val Val Gly Thr Ala Thr Ser Arg Leu Pro Asp Arg  
35 40 45

<210> 3115

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<212> PRT

<213> Homo sapiens

<400> 3115

Ser Met Val Trp Leu Leu Gly Trp Cys Leu  
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<210> 3116

<211> 35

<212> PRT

<213> Homo sapiens

<400> 3116

Met Lys Ser Gly Cys Leu Lys Glu Ser Gly Thr Pro Pro Phe Ser Cys  
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Ser Cys Ser Cys Ser Pro His Asp Val Thr Cys Leu Leu Ser Leu Cys  
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Val Leu Pro  
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<210> 3117  
<211> 28  
<212> PRT  
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<400> 3117  
Met Val Asn Met Gly Ser Ala Trp Pro Phe Leu Tyr Gly Tyr Phe Ser  
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Leu Lys Met Val Leu Met Phe Ile His Ile Tyr Ser  
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<210> 3118  
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<400> 3118  
Met Val Asp Glu Lys Gly Phe  
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<212> PRT  
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<400> 3119  
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<210> 3120  
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<212> PRT  
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<400> 3120  
Met Gly Ser Trp Ala Pro Gly Thr Ala Met Ala Arg Ala Leu Leu Cys  
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Gly Cys Arg Ser Gly Ser Trp Gly Cys Gly Trp Trp Gly Ser Leu Gly  
20 25 30

Gly Ala Ala Ser Pro Ala Glu Gly Leu Phe Arg Ala Leu Gly Ala Val  
35 40 45

Ser Arg Gly Ser Pro Leu Cys Val Ser Arg Ala Pro  
50 55 60



Table 1. *Continued*

Study	Year	Country	Sample size	Prevalence (%)	95% CI
Wong et al. (1997)	1997	China	1000	1.0	0.5-1.7
Wong et al. (1998)	1998	China	1000	1.0	0.5-1.7
Wong et al. (1999)	1999	China	1000	1.0	0.5-1.7
Wong et al. (2000)	2000	China	1000	1.0	0.5-1.7
Wong et al. (2001)	2001	China	1000	1.0	0.5-1.7
Wong et al. (2002)	2002	China	1000	1.0	0.5-1.7
Wong et al. (2003)	2003	China	1000	1.0	0.5-1.7
Wong et al. (2004)	2004	China	1000	1.0	0.5-1.7
Wong et al. (2005)	2005	China	1000	1.0	0.5-1.7
Wong et al. (2006)	2006	China	1000	1.0	0.5-1.7
Wong et al. (2007)	2007	China	1000	1.0	0.5-1.7
Wong et al. (2008)	2008	China	1000	1.0	0.5-1.7
Wong et al. (2009)	2009	China	1000	1.0	0.5-1.7
Wong et al. (2010)	2010	China	1000	1.0	0.5-1.7
Wong et al. (2011)	2011	China	1000	1.0	0.5-1.7
Wong et al. (2012)	2012	China	1000	1.0	0.5-1.7
Wong et al. (2013)	2013	China	1000	1.0	0.5-1.7
Wong et al. (2014)	2014	China	1000	1.0	0.5-1.7
Wong et al. (2015)	2015	China	1000	1.0	0.5-1.7
Wong et al. (2016)	2016	China	1000	1.0	0.5-1.7
Wong et al. (2017)	2017	China	1000	1.0	0.5-1.7
Wong et al. (2018)	2018	China	1000	1.0	0.5-1.7
Wong et al. (2019)	2019	China	1000	1.0	0.5-1.7
Wong et al. (2020)	2020	China	1000	1.0	0.5-1.7
Wong et al. (2021)	2021	China	1000	1.0	0.5-1.7
Wong et al. (2022)	2022	China	1000	1.0	0.5-1.7
Wong et al. (2023)	2023	China	1000	1.0	0.5-1.7
Wong et al. (2024)	2024	China	1000	1.0	0.5-1.7
Wong et al. (2025)	2025	China	1000	1.0	0.5-1.7

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<213> Homo sapiens
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<222> (34)
<223> Xaa equals any of the naturally occurring L-amino acids
```

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<220>
<221> SITE
<222> (38)
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>
<221> SITE
<222> (39)
<223> Xaa equals any of the naturally occurring L-amino acids
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<400> 3125  
Met Gly Leu Val Arg Tyr Val Ser Ile Ser Leu Cys Trp Phe Phe Cys  
1 5 10 15

Leu Gln Lys Pro Arg Phe Leu Phe Leu Phe Glu Lys Lys Lys Lys Lys

20 25 30

Lys Xaa Gly Gly Leu Xaa Xaa Gly Pro Gly Ala His Gly Phe Ser His  
35 40 45

Pro

```
<210> 3126
<211> 49
<212> PRT
<213> Homo sapiens
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<220>
<221> .SITE
<222> (34)
<223> Xaa equals any of the naturally occurring L-amino acids
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1658



[illegible]

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<210> 3131
<211> 41
<212> PRT
<213> Homo sapiens
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<210> 3132
<211> 33
<212> PRT
<213> Homo sapiens
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<210> 3133
<211> 66
<212> PRT
<213> Homo sapiens
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[illegible]

```
<210> 3134
<211> 39
<212> PRT
<213> Homo sapiens
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```

<400> 3134
Met Gly Arg Leu Gly Arg Glu Leu Arg Thr Ala Tyr Leu Leu Phe Ile
  1           5           10           15

Leu Arg Leu Ser Tyr Thr Ser Ala Gly Leu Ser Leu Arg Gly Thr Ile
          20           25           30

Ser Ser Val Ser Gln Pro Gln
      35

```

```
<210> 3135
<211> 30
<212> PRT
<213> Homo sapiens
```

```
<400> 3135
Met Trp Ile Leu Ser Cys Ile Phe Met Ile Asn Val Ile Val Ala Val
   1                               5               10              15

Leu Pro Met Arg Val Gly Leu Glu Gly Leu Asn Asn Leu Ser
          20                25                 30
```

```
<210> 3136
<211> 38
<212> PRT
<213> Homo sapiens
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1661

His His Pro His Gln Ser  
35

<210> 3137  
<211> 243  
<212> PRT  
<213> Homo sapiens

<400> 3137  
Leu Ala Ala Leu Ser Leu His Ala Ala Gly Ser Val Leu Gly Val Pro  
1 5 10 15  
Pro Arg Ala Ala Val His Pro Ala Arg Arg Gly Arg Pro Ala Ala Gly  
20 25 30  
Pro Gly Gly Leu Leu His Leu Pro Gly Gly Gln Pro Pro Glu Gly Pro  
35 40 45  
Val Pro Pro His Gly Trp Ala Leu Pro His Leu Gly Gln Glu Ala Gln  
50 55 60  
Gly His Arg Val Leu Leu His Ile Arg Arg Arg Ala Glu Ala Pro Gln  
65 70 75 80  
Gln Ala Ala Gly Val Gly Leu Leu Gly Arg Gly Pro Pro Leu Gln Leu  
85 90 95  
Arg Arg Arg Pro Asp Gly Gln Pro Gly Leu Leu Pro Gly Leu Trp Arg  
100 105 110  
Trp Pro Pro Ala Ala Leu Leu Leu His His Leu His Gly His Pro Ala  
115 120 125  
Asp Pro Pro Leu Pro Pro Gly Arg Ala Pro Leu Arg Gln Gln Val Arg  
130 135 140  
Pro Gly Leu Gly Ala Leu His Arg Arg Ser Ala Leu Pro Pro Ala Ala  
145 150 155 160  
Trp Asn Leu Leu Arg Ala Arg Pro Arg Glu Lys Pro Cys Gly Ala Val  
165 170 175  
Lys Ser Val Phe Cys Gln Val His Gly Gly Trp His Pro Ser Ser Asn  
180 185 190  
Ser Arg Ser Leu Ser Phe Leu Ile Cys Lys Leu Glu Arg Ala Gln His  
195 200 205  
Leu Ala Gly Val Gln Tyr Leu Ile Thr Leu Cys Ser Leu Leu Leu Pro  
210 215 220  
Ser Arg Glu Phe Arg Val Ser Ser Thr Ala Val Leu Pro Ala Gln Thr  
225 230 235 240  
Asp Phe Leu

<210> 3138  
 <211> 33  
 <212> PRT  
 <213> Homo sapiens

<400> 3138  
 Met Leu Cys Ser Trp Phe Phe Leu Pro Leu Phe Leu Thr Ile Leu Asn  
 1 5 10 15  
 Ile Ala Thr Thr Ser Thr Leu Cys Lys His Gln Val Cys Ala Pro Tyr  
 20 25 30

Thr

<210> 3139  
 <211> 44  
 <212> PRT  
 <213> Homo sapiens

<400> 3139  
 Val Ser Leu Ser Cys Phe Leu Thr Leu Leu Pro Gly Leu Leu Cys Val  
 1 5 10 15  
 His Leu Arg Leu Ala Trp Ser Lys Gln Val Arg Pro Leu Leu Leu Tyr  
 20 25 30  
 Ser Leu Val Leu Phe Trp His Leu Val Lys Leu Ala  
 35 40

<210> 3140  
 <211> 117  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (117)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 3140  
 Met Asp Leu Ser His Leu Leu Ala Leu Trp Cys His Pro Gly Leu His  
 1 5 10 15  
 Cys Cys Trp Thr Cys Cys Ser Ser Pro Ser Gln Thr Thr Ser Phe Gln  
 20 25 30  
 Ser Pro Phe Gln Phe Leu Leu His Pro Pro Pro Met Ala Ser Asn Ser  
 35 40 45  
 Ala Ala Leu Cys Ser Pro Leu Ser Val Leu Ser Pro Glu Phe His Leu  
 50 55 60  
 Leu Thr Arg Pro Gly Pro Leu Leu Pro Phe Pro Gln Ala Leu Gln Leu  
 65 70 75 80

Phe Phe Arg Thr Glu Ser Leu Asn Ser Pro Phe Ile Leu Leu Leu Leu  
85 90 95

His Leu Gln Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys  
100 105 110

Lys Lys Lys Lys Xaa  
115

<210> 3141  
<211> 39  
<212> PRT  
<213> Homo sapiens

<400> 3141  
Met Tyr Leu Ser Ile Ser Ile Phe Phe Phe Gly Phe Cys Ile Ile Ser  
1 5 10 15

Cys Lys Cys Ile Val Lys Asn Phe Ile Phe Gly Val Ala Met Arg Gly  
20 25 30

Gly Glu Val Arg Leu Cys Thr  
35

<210> 3142  
<211> 32  
<212> PRT  
<213> Homo sapiens

<400> 3142  
Met Pro Arg Gly Phe Thr Trp Leu Arg Tyr Leu Gly Ile Phe Leu Gly  
1 5 10 15

Val Ala Leu Gly Asn Glu Pro Ser Glu Asn Val Ala Leu Asp Ala Glu  
20 25 30

<210> 3143  
<211> 31  
<212> PRT  
<213> Homo sapiens

<400> 3143  
Met Gln Cys Ile Ile Ile Phe Ser Ile Leu Phe Cys Leu Phe Phe Cys  
1 5 10 15

Ser Cys Leu Thr Gln Asn Ile Lys Leu Val Leu Gln Pro Thr Ile  
20 25 30

<210> 3144  
<211> 50



<212> PRT  
<213> Homo sapiens

<400> 3144  
Met Trp Ile Pro Leu Arg Pro Ala Pro Leu His Trp Ser Trp Arg Leu  
1 5 10 15  
Ile Trp Glu Ala Val Cys Ala Leu Ala Pro Glu Gly Thr Trp Ser Thr  
20 25 30  
Pro His Leu Glu Asn Pro His Pro Glu His Ser Phe Pro Gly Ala Pro  
35 40 45  
Leu Thr  
50

<210> 3145  
<211> 85  
<212> PRT  
<213> Homo sapiens

<400> 3145  
Met Val Gly Gly Pro Pro Phe Val Gly Pro Val Gly Phe Gly Pro Gly  
1 5 10 15  
Asp Arg Ser His Leu Asp Ser Pro Glu Ala Arg Glu Pro Cys Ser Cys  
20 25 30  
Gly Gly Gln Leu Trp Pro Pro Arg Gly Pro Leu Ser Cys Val Gln Pro  
35 40 45  
Ser Ser Pro Thr Cys Tyr Arg Glu Gln Gln Pro Ala Pro Ala Leu Trp  
50 55 60  
Pro Tyr Gly Pro Leu Thr Arg Pro Ser Trp Ala Pro Leu Cys Leu Gly  
65 70 75 80  
Pro Leu Asp His Pro  
85

<210> 3146  
<211> 67  
<212> PRT  
<213> Homo sapiens

<400> 3146  
Met Val Ser Leu Ala Leu Thr Leu Thr Ile Pro Ser Pro Ile Leu Trp  
1 5 10 15  
Thr Ile Cys Met Ala Ile Leu Arg Val Arg Thr Pro Cys Glu Arg Pro  
20 25 30  
Ser Ser Ser Cys Ile Gln Thr Gly Gln Thr Val Thr Thr Leu Arg Pro  
35 40 45  
Ala Val Lys His Trp Trp His Ser Ser Leu Thr Thr Ser Gly Trp Ser  
50 55 60

Pro Gln Trp  
65

<210> 3147  
<211> 28  
<212> PRT  
<213> Homo sapiens

<400> 3147  
Met Tyr Ile Lys Leu Leu Ile Val Leu Leu Glu Ser Phe Ala Leu Leu  
1 5 10 15

Ser Cys Leu Met Glu Gln Phe Leu Met Glu Met Cys  
20 25

<210> 3148  
<211> 39  
<212> PRT  
<213> Homo sapiens

<400> 3148  
Met Ile Trp Ala Leu Gly Asn Leu Glu Val Leu Gly Leu Cys Leu Cys  
1 5 10 15

Ser Ser Ile Phe Ile Arg Lys Glu Ser Ile Gly Leu Leu Gln Gly Ile  
20 25 30

Asn Pro Phe Val Thr Tyr His  
35

<210> 3149  
<211> 54  
<212> PRT  
<213> Homo sapiens

<400> 3149  
Met Lys Ala His Lys Ser Ser Gly Tyr Asn Gly Leu Leu Gly Ile Leu  
1 5 10 15

Leu Tyr Leu Ile Tyr Phe Leu Leu Phe Asp Ile Phe Gln Gln Phe Val  
20 25 30

Leu Gly Pro Ser Trp Glu Ala Ser Val Ile Leu Lys Leu Gln Ile Cys  
35 40 45

Ile Ser Asn Leu Lys Gly  
50

<210> 3150  
<211> 38  
<212> PRT  
<213> Homo sapiens

[illegible]

Phe Leu Lys Met Arg Phe  
35

<213> Homo sapiens

Gly Val Arg

<213> Homo sapiens

<400> 3152

Met Phe Asn Phe Gly Ser Pro Met Trp Leu Phe Val Arg Ser Gly Leu  
1 5 10 15

Leu Lys Leu Asp Leu Ala Arg Tyr Ser Leu Pro Cys Trp Arg Phe Ile  
20 25 30

Pro Thr Asn Gln Leu Cys Gly Leu Trp Gln Pro Asn Gly Lys Trp Lys  
35 40 45

Ile Asp Cys Leu Gln Lys Ala Gln Gly Asn Tyr Phe Phe Ala His Cys  
50 55 60

Ala Phe Ile Gln Ser Ala Gln Asn Phe Ile Lys Asn Thr Leu Gly Trp  
65 70 75 80

Ser

<210> 3153

<211> 55

<212> PRT

<213> Homo sapiens

<400> 3153

Met Phe Ile Tyr Glu Ser Asn Ile Ala Asn Leu Ser Leu Ile Ile Leu  
1 5 10 15

Phe Leu Lys His Gln Val Tyr Ser Gln Cys Val Ala Leu Met Thr Ile  
20 25 30

Ser Trp Glu Arg Asn Arg Thr Ala Ile Met Thr Asn Gly Lys Asp Ser  
35 40 45

Lys Ala Val Ser Asp Gly Lys  
50 55

<210> 3154

<211> 29

<212> PRT

<213> Homo sapiens

<400> 3154

Met Ser Leu Leu Pro Ser Met Tyr Leu Leu Cys Ser Thr Val Glu Ile  
1 5 10 15

Phe Leu Pro Ile Phe Lys Leu Gly Phe Phe Phe Cys Tyr  
20 25

<210> 3155

<211> 31

<212> PRT

<213> Homo sapiens

<400> 3155

Met Thr Gly Cys Leu Cys Thr Val Cys Ile Trp Leu Ser Arg Cys Leu  
1 5 10 15

Cys Ala Glu Ser Met Pro Pro Val Gly Ile Arg Phe Tyr Leu Phe  
20 25 30

<210> 3156

<211> 33

<212> PRT

<213> Homo sapiens

<400> 3156

Met Ser Leu Trp Met His Arg Leu Thr Ser Leu Ser Leu Gln Ile Leu  
1 5 10 15

Ser Ser Ala Glu Gly Ile Ile Ile Ser His Arg Thr Val Met Lys Thr  
20 25 30

Lys

<210> 3157

<211> 24

<212> PRT

<213> Homo sapiens

<400> 3157

Met Arg Asn Gln Gly Ala Trp Leu Trp Val Ser Ser Ile Cys Leu Ala  
1 5 10 15

Cys Gly Ala Ser Cys Gly Asp Gln  
20

<210> 3158

<211> 43

<212> PRT

<213> Homo sapiens

<400> 3158

Met Pro Ala Arg Thr Ser Gly Lys Gln Ser His Ile Cys Glu Asn Ser  
1 5 10 15

Gly Arg Arg Cys Ser Leu Leu Leu Leu Val Lys Cys Leu Glu Arg Arg  
20 25 30

Gly Arg Ser Pro Thr Lys Gly Thr Pro Ser Gly  
35 40

<210> 3159

<211> 32

<212> PRT

<213> Homo sapiens

<400> 3159

Met Met Asn Tyr Leu Leu Lys Leu Phe Thr Val Pro Leu Pro Ala Ile  
1 5 10 15

Cys Phe Leu Phe Phe Phe Ser Pro Ala Pro Ser Val Cys His Met Phe  
20 25 30

<210> 3160

<211> 56

<212> PRT

<213> Homo sapiens

<400> 3160

Met Pro Thr Trp Val Leu Cys Gly Arg Thr Ser Leu Leu Ser His Ser  
1 5 10 15

Trp Cys Gly Ser Gly Gln Gln Met Lys Thr Pro Leu Pro Thr Thr Arg  
20 25 30

Ser Pro Thr Ala Leu Ser Val His Leu Ser Leu Ala Ala Thr Ser Thr  
35 40 45

Ser Ala Cys Thr Arg Ala Met Glu  
50 55

<210> 3161

<211> 63

<212> PRT

<213> Homo sapiens

<400> 3161

Met Leu Pro Gln Met Tyr Leu Lys Ser Arg His Ser Phe Thr Lys Glu  
1 5 10 15

Glu Glu Ala Val Leu Phe Cys Leu Ile Ala Leu Val Thr Lys Leu Met  
20 25 30

Phe Thr Ser Leu Ser Leu Ala Pro Gly Ser Ala Leu Ile Leu Gln Lys  
35 40 45

Thr Glu Leu Lys Ser Gln Ala Tyr Phe Pro Val Gly Leu Cys Leu  
50 55 60

<210> 3162

<211> 34

<212> PRT

<213> Homo sapiens

<400> 3162

Gly Leu Val Val Leu Phe Leu Pro Ser Ser Leu Ala Leu Leu Lys  
1 5 10 15

Ser His Arg Leu Arg Met Arg Arg Ala Val Lys Asp Thr Ser Ser Ala  
 20 25 30

Ala Phe

<210> 3163  
 <211> 42  
 <212> PRT  
 <213> Homo sapiens

<400> 3163  
 Met Cys Gly Val Cys Leu Cys Leu Leu Pro Arg Thr Ile Thr Ser Phe  
 1 5 10 15  
 Pro Phe Ser His Ile Thr Ala Leu Leu Ala Ala Ala Val Val Cys Cys  
 20 25 30  
 Lys Ser Glu Leu Ile Asn Pro Thr Glu Tyr  
 35 40

<210> 3164  
 <211> 100  
 <212> PRT  
 <213> Homo sapiens

<400> 3164  
 Met Trp His Leu Leu Val Phe Ile Val Cys Val Phe Phe Val Tyr Tyr  
 1 5 10 15  
 Thr Leu Gly Asn Phe Val Leu Pro Lys Lys Lys Lys Lys Gly Ser Val  
 20 25 30  
 Met Ser Asp Thr Gln Glu Lys Gln Ile Ser Val Val Ser Leu Lys Tyr  
 35 40 45  
 Asn Phe Lys Gly His Tyr Gln Gln Gln Gly Phe Phe Tyr Thr Leu Lys  
 50 55 60  
 Thr Leu Cys Tyr Ile Ser Leu Pro Phe Ser Tyr Phe Gly Val Leu Leu  
 65 70 75 80  
 Leu Leu Tyr Asn Gly Ile Asn Gly Asn Val Ile Gln Pro Leu Asn Cys  
 85 90 95  
 His Tyr Tyr Ile  
 100

<210> 3165  
 <211> 41  
 <212> PRT  
 <213> Homo sapiens

<400> 3165

Trp Gly Cys Gln Lys Trp Arg Leu Gln Pro Pro Arg Val Ser Ser Ser  
 1 5 10 15

Gly Ala Pro Cys Phe Val Pro Pro Ser Cys Ala Ile Gln Arg Gly Pro  
 20 25 30

Pro Gly Leu Ala Glu Thr Pro Pro Gly  
 35 40

<210> 3166  
 <211> 3  
 <212> PRT  
 <213> Homo sapiens

<400> 3166  
 Met Glu Met  
 1

<210> 3167  
 <211> 30  
 <212> PRT  
 <213> Homo sapiens

<400> 3167  
 Met Pro Gly Val Phe Phe Phe Phe Val Phe Phe Phe Asn Ser Tyr Phe  
 1 5 10 15  
 Gly Cys Ala Leu Val Ser Gln Cys Ser Phe Asn Leu His Phe  
 20 25 30

<210> 3168  
 <211> 60  
 <212> PRT  
 <213> Homo sapiens

<400> 3168  
 Met Arg Ser Val Pro Ala Ile Leu Gln Met Leu Trp Ile Leu Arg Arg  
 1 5 10 15  
 Ser Thr Asn Trp Thr Leu Tyr Leu Ile Leu His Gly Cys Pro Ala Val  
 20 25 30  
 Val Cys Ala Trp Pro Arg Gln His Ala Pro Trp Gly Met Val Arg Leu  
 35 40 45  
 Trp Val Pro Thr Ala Ala Pro Ala Ala Leu Ser Pro  
 50 55 60

<210> 3169  
 <211> 38  
 <212> PRT  
 <213> Homo sapiens



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<400> 3169

Met Glu Lys Thr Leu Lys Val Leu Phe Leu Phe Ser His Pro Ala Thr  
1 5 10 15

Ile Asn Thr Val Asp Phe Cys Glu Met Cys Gly Val Phe Ser Pro Asp  
20 25 30

Thr Lys Gln Val Leu Thr  
35

<210> 3170

<211> 21

<212> PRT

<213> Homo sapiens

<400> 3170

Val His Lys Lys His Ser Thr Gly Thr Lys Ser Phe Ser Lys Pro Ala  
1 5 10 15

Val Phe Gly Glu His  
20

<210> 3171

<211> 57

<212> PRT

<213> Homo sapiens

<400> 3171

Met Ala Leu Asp Ser Ser Thr Leu Val Ala Leu Leu Gly Thr Ala Pro  
1 5 10 15

Leu Leu Ala Ala Phe Thr Ala Gly Val Glu Cys Leu Trp Leu Phe Gln  
20 25 30

Ala Leu Ser Ala Ser Cys Pro Trp Ile Asp His Ser Gly Val Trp Arg  
35 40 45

Thr Val Ala Leu Phe Ser Gln Leu His  
50 55

<210> 3172

<211> 51

<212> PRT

<213> Homo sapiens

<400> 3172

Met Ala Pro Cys Cys Trp Ala Leu Trp Val Gly Ser Ala Pro Trp Glu  
1 5 10 15

Pro Ala Ser Met Pro Gly Pro His Ser Ser His Ser Cys Trp Ser Leu  
20 25 30

Ala Pro Trp Pro Leu Cys Ser Ser Ile Leu Trp Val Trp Gly Arg Arg  
35 40 45





				85				90				95			
Lys	Gln	Gly	Ser 100	Gly	Asn	Asn	Trp	Ala 105	Tyr	Gly	Tyr	Ser	Val 110	His	Gly
Pro	Arg	His 115	Glu	Glu	Ser	Ile	Met 120	Asn	Ile	Ile	Arg	Lys 125	Glu	Val	Glu
Lys	Cys 130	Asp	Ser	Phe	Ser	Gly 135	Phe	Phe	Ile	Ile	Met 140	Ser	Met	Ala	Gly
Gly 145	Thr	Gly	Ser	Gly	Leu 150	Gly	Ala	Phe	Val	Thr 155	Gln	Asn	Leu	Glu	Asp 160
Gln	Tyr	Ser	Asn 165	Ser	Leu	Lys	Met	Asn	Gln 170	Ile	Ile	Trp	Pro	Tyr 175	Gly
Thr	Gly	Glu	Val 180	Ile	Val	Gln	Asn 185	Tyr	Asn	Ser	Ile	Leu 190	Thr	Leu	Ser
His	Leu	Tyr 195	Arg	Ser	Ser	Asp	Ala 200	Leu	Leu	Leu	His	Glu 205	Asn	Asp	Ala
Ile 210	His	Lys	Ile	Cys	Ala	Lys 215	Leu	Met	Asn	Ile	Lys 220	Gln	Ile	Ser	Phe
Ser 225	Asp	Ile	Asn	Gln	Val 230	Leu	Ala	His	Gln	Leu 235	Gly	Ser	Val	Phe	Gln 240
Pro	Thr	Tyr	Ser	Ala 245	Glu	Ser	Ser	Phe	His 250	Tyr	Arg	Arg	Asn	Pro 255	Leu
Gly	Asp	Leu	Met 260	Glu	His	Leu	Val 265	Pro	His	Pro	Glu	Phe	Lys 270	Met	Leu
Ser	Val	Arg 275	Asn	Ile	Pro	His	Met 280	Ser	Glu	Asn	Ser	Leu 285	Ala	Tyr	Thr
Thr	Phe 290	Thr	Trp	Ala	Gly	Leu 295	Leu	Lys	His	Leu	Arg 300	Gln	Met	Leu	Ile
Ser 305	Asn	Ala	Lys	Met	Glu 310	Glu	Gly	Ile	Asp	Arg 315	His	Val	Trp	Pro	Pro 320
Leu	Ser	Gly	Leu	Pro 325	Pro	Leu	Ser	Lys	Met 330	Ser	Leu	Asn	Lys	Asp 335	Leu
His	Phe	Asn	Thr 340	Ser	Ile	Ala	Asn	Leu 345	Val	Ile	Leu	Arg	Gly 350	Lys	Asp
Val	Gln	Ser	Ala 355	Asp	Val	Glu	Gly 360	Phe	Lys	Asp	Pro	Ala 365	Leu	Tyr	Thr
Ser	Trp 370	Leu	Lys	Pro	Val	Asn 375	Ala	Phe	Asn	Val	Trp 380	Lys	Thr	Gln	Arg
Ala 385	Phe	Ser	Lys	Tyr	Glu 390	Lys	Ser	Ala	Val	Leu 395	Val	Ser	Asn	Ser	Gln 400
Phe	Leu	Val	Lys	Pro 405	Leu	Asp	Met	Ile	Val 410	Gly	Lys	Ala	Trp	Asn 415	Met

Phe Ala Ser Lys Ala Tyr Ile His Gln Tyr Thr Lys Phe Gly Ile Glu  
 420 425 430

Glu Glu Asp Phe Leu Asp Ser Phe Thr Ser Leu Glu Gln Val Val Ala  
 435 440 445

Ser Tyr Cys Asn Leu  
 450

<210> 3178  
 <211> 21  
 <212> PRT  
 <213> Homo sapiens

<400> 3178  
 Met Arg Ala Arg Pro Ser Pro Ser Pro Leu Arg Ser Trp Ala Cys Arg  
 1 5 10 15

Pro Pro Cys Cys Cys  
 20

<210> 3179  
 <211> 78  
 <212> PRT  
 <213> Homo sapiens

<400> 3179  
 Met Gly His Leu Ile Gln Arg Lys Lys Val His Val Phe Gly Asp Glu  
 1 5 10 15

Leu Ser Leu Val Thr Leu Phe Arg Cys Ile Gln Asn Met Pro Glu Thr  
 20 25 30

Leu Pro Asn Asn Ser Cys Tyr Ser Ala Gly Ile Ala Lys Leu Glu Glu  
 35 40 45

Gly Asp Glu Leu Gln Leu Ala Ile Pro Arg Glu Asn Ala Gln Ile Ser  
 50 55 60

Leu Asp Gly Asp Val Thr Phe Phe Gly Ala Leu Lys Leu Leu  
 65 70 75

<210> 3180  
 <211> 32  
 <212> PRT  
 <213> Homo sapiens

<400> 3180  
 Met Thr Gln Val Thr Ile Ser Lys Leu Gly Arg Leu Leu Leu Leu Ala  
 1 5 10 15

Leu Pro Leu Cys Pro Ile Ser Cys Gln Tyr Ser Gln Phe Ser Arg Glu  
 20 25 30

<210> 3181  
 <211> 35  
 <212> PRT  
 <213> Homo sapiens

<400> 3181  
 Met Asp His Phe Leu Val Phe Phe Phe Leu Ile Gly Ala Leu Asn Lys  
 1 5 10 15  
 Tyr Gly Thr Trp Thr Lys Arg Phe Ser Gly Ile Leu Trp Lys Leu Thr  
 20 25 30  
 Phe Leu Thr  
 35

<210> 3182  
 <211> 68  
 <212> PRT  
 <213> Homo sapiens

<400> 3182  
 Phe Phe Phe Phe Phe Phe Phe Lys Leu His Gly Thr Glu Phe Asn Val  
 1 5 10 15  
 Asn His Glu Met Arg Gln Lys Pro Pro Gly Arg Trp Glu Asp Pro  
 20 25 30  
 Ala Pro Asn Gln Thr Leu Glu His Ala Ala Leu Asn Gln Thr Pro Gly  
 35 40 45  
 Arg Gly Cys Val Val Met His Arg Leu Arg Leu Arg Gly Glu Asp Gly  
 50 55 60  
 Lys Thr Gln Pro  
 65

<210> 3183  
 <211> 50  
 <212> PRT  
 <213> Homo sapiens

<400> 3183  
 Met Ala Val Ala Leu Glu Thr Val Leu Ile Ile Phe Ser Leu Phe Gly  
 1 5 10 15  
 Thr Thr Leu Thr Lys Leu Val Val Leu Leu Leu His Val Gln Lys Leu  
 20 25 30  
 Asp Ile Leu Tyr Met Gln Gln Phe Ser Tyr Ala Thr Met Arg Gln Glu  
 35 40 45  
 Glu His

<210> 3184  
 <211> 8  
 <212> PRT  
 <213> Homo sapiens

<400> 3184  
 Met Lys Leu Tyr Phe Leu Met Cys  
 1 5

<210> 3185  
 <211> 97  
 <212> PRT  
 <213> Homo sapiens

<400> 3185  
 Arg Gln Pro Cys Pro Gly Leu Trp Pro Pro Pro Phe Tyr Ser Pro Cys  
 1 5 10 15  
 Gly Leu Gly Leu Cys Ser Leu His Asp Arg Pro Ala Leu Val Val Gly  
 20 25 30  
 Ala His Arg Val Pro Thr Pro Gly Leu His Cys Gly Cys Leu Arg Val  
 35 40 45  
 Pro Ala Asp Asp Arg Leu Pro Pro Gly Ala Ala Pro Thr Leu Gln Arg  
 50 55 60  
 Gly Arg Glu Cys Glu Ala Gly Pro Cys Glu Ala Gln Gly Ala Asp Leu  
 65 70 75 80  
 Ser Gly Gln Gly Pro Ser Pro His Ser Ala Ala Leu Ala Leu Ser Ile  
 85 90 95  
 His

<210> 3186  
 <211> 310  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (127)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 3186  
 Met Val Tyr Lys Thr Leu Phe Ala Leu Cys Ile Leu Thr Ala Gly Trp  
 1 5 10 15  
 Arg Val Gln Ser Leu Pro Thr Ser Ala Pro Leu Ser Val Ser Leu Pro  
 20 25 30





<400> 3187

Met Glu Ser Gly Gln Val Ser Leu Phe Gly Leu Val Phe Ser Leu Met  
1 5 10 15

Pro Cys Cys Gln His Ile Gln Lys Gly Ala Ala Cys Pro Lys Thr Val  
20 25 30

Asn Leu Arg Arg Pro Gln Leu Ser Gly Leu Leu Ile Ser Trp Arg Phe  
35 40 45

Leu Lys Cys Ile Leu Leu Asp Phe Asn Gly Trp Val Trp Lys Ser Pro  
50 55 60

<210> 3188

<211> 16

<212> PRT

<213> Homo sapiens

<400> 3188

Met Ala Leu Ser Phe Ile Phe Pro Ser Asp Phe Cys Pro Ser Phe Leu  
1 5 10 15

<210> 3189

<211> 16

<212> PRT

<213> Homo sapiens

<400> 3189

Met Val Val Leu Phe Leu Phe Pro Ile Thr Val Leu Ala Leu Lys Leu  
1 5 10 15

<210> 3190

<211> 31

<212> PRT

<213> Homo sapiens

<400> 3190

Met Ser Ala Ser Leu Asn His Ile Lys Val Ser Ser Val Trp Leu Leu  
1 5 10 15

Leu Leu Phe Glu Met Val Leu Cys Phe Gly Cys Gly Leu Lys Leu  
20 25 30

<210> 3191

<211> 39  
 <212> PRT  
 <213> Homo sapiens

<400> 3191  
 Met Lys Glu Gln Leu Ala Gln Phe Leu Lys Val Thr Ser Ser Phe Arg  
   1                  5                  10                  15  
 Leu Leu Leu Leu Leu Thr Trp Met Gly Leu Gly Ile Ala Pro Leu Thr  
                   20                  25                  30  
 Leu Cys Tyr Thr Ala Ile Thr  
                   35

<210> 3192  
 <211> 39  
 <212> PRT  
 <213> Homo sapiens

<400> 3192  
 Met Lys Glu Gln Leu Ala Gln Phe Leu Lys Val Thr Ser Ser Phe Arg  
   1                  5                  10                  15  
 Leu Leu Leu Leu Leu Thr Trp Met Gly Leu Gly Ile Ala Pro Leu Thr  
                   20                  25                  30  
 Leu Cys Tyr Thr Ala Ile Thr  
                   35

<210> 3193  
 <211> 39  
 <212> PRT  
 <213> Homo sapiens

<400> 3193  
 Met Lys Glu Gln Leu Ala Gln Phe Leu Lys Val Thr Ser Ser Phe Arg  
   1                  5                  10                  15  
 Leu Leu Leu Leu Leu Thr Trp Met Gly Leu Gly Ile Ala Pro Leu Thr  
                   20                  25                  30  
 Leu Cys Tyr Thr Ala Ile Thr  
                   35

<210> 3194  
 <211> 35  
 <212> PRT  
 <213> Homo sapiens

<400> 3194  
 Met Leu Arg Val Met Asn Leu Phe His Leu Leu Phe Glu Ile Ala Thr  
   1                  5                  10                  15  
 Cys Leu Ile Cys Leu Ser Ile Ser Ser Lys Asn Ser Gly Glu Asn Ser  
                   20                  25                  30

Met Ile Glu  
35

<210> 3195  
<211> 37  
<212> PRT  
<213> Homo sapiens

<400> 3195  
Met Leu Asp Phe Leu Arg Ser Gln Leu Lys Leu Leu Ser Tyr Leu Leu  
1 5 10 15  
Leu Gly Phe Leu Leu Leu Arg Gln Arg Gly Ile Gly Arg Thr Ser Glu  
20 25 30  
Ile Phe Val Asn Ser  
35

<210> 3196  
<211> 23  
<212> PRT  
<213> Homo sapiens  
  
<400> 3196  
Met Ser Gln Ala Cys Leu Gln Leu Ala Met Leu Ser Pro Ser Pro Leu  
1 5 10 15  
Pro Gly Gly Thr Thr Ala Lys  
20

<210> 3197  
<211> 310  
<212> PRT  
<213> Homo sapiens  
  
<220>  
<221> SITE  
<222> (307)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 3197  
Met Met Phe Leu Ala Val Gly Ile Tyr Ala Leu Phe Val Ser Thr Asn  
1 5 10 15  
Tyr Trp Glu Arg Tyr Tyr Thr Leu Val Pro Ser Ala Val Ala Leu Gly  
20 25 30  
Met Ala Ile Val Pro Leu Trp Ala Ser Met Gly Asn Tyr Ile Thr Arg  
35 40 45  
Met Ala Gln Lys Tyr His Glu Tyr Ser His Tyr Lys Glu Gln Asp Gly  
50 55 60  
Gln Gly Met Lys Gln Arg Pro Pro Arg Gly Ser His Ala Pro Tyr Leu





<220>

<221> SITE

<222> (370)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 3199

Met Met Phe Leu Ala Val Gly Ile Tyr Ala Leu Phe Val Ser Thr Asn  
1 5 10 15  
Tyr Trp Glu Arg Tyr Tyr Thr Leu Val Pro Ser Ala Val Ala Leu Gly  
20 25 30  
Met Ala Ile Val Pro Leu Trp Ala Ser Met Gly Asn Tyr Ile Thr Arg  
35 40 45  
Met Ala Gln Lys Tyr His Glu Tyr Ser His Tyr Lys Glu Gln Asp Gly  
50 55 60  
Gln Gly Met Lys Gln Arg Pro Pro Arg Gly Ser His Ala Pro Tyr Leu  
65 70 75 80  
Leu Val Phe Gln Ala Ile Phe Tyr Ser Phe Phe His Leu Ser Phe Ala  
85 90 95  
Cys Ala Gln Leu Pro Met Ile Tyr Phe Leu Asn His Tyr Leu Tyr Asp  
100 105 110  
Leu Asn His Thr Leu Tyr Asn Val Gln Ser Cys Gly Thr Asn Ser His  
115 120 125  
Gly Ile Leu Ser Gly Phe Asn Lys Thr Val Leu Arg Thr Leu Pro Arg  
130 135 140  
Ser Gly Asn Leu Ile Val Val Glu Ser Val Leu Met Ala Val Ala Phe  
145 150 155 160  
Leu Ala Met Leu Leu Val Leu Gly Leu Cys Gly Ala Ala Tyr Arg Pro  
165 170 175  
Thr Glu Glu Ile Asp Leu Arg Ser Val Gly Trp Gly Asn Ile Phe Gln  
180 185 190  
Leu Pro Phe Lys His Val Arg Asp Tyr Arg Leu Arg His Leu Val Pro  
195 200 205  
Phe Phe Ile Tyr Ser Gly Phe Glu Val Leu Phe Ala Cys Thr Gly Ile  
210 215 220  
Ala Leu Gly Tyr Gly Val Cys Ser Val Gly Leu Glu Arg Leu Ala Tyr  
225 230 235 240  
Leu Leu Val Ala Tyr Ser Leu Gly Ala Ser Ala Ala Ser Leu Leu Gly  
245 250 255  
Leu Leu Gly Leu Trp Leu Pro Arg Pro Val Pro Leu Val Ala Gly Ala  
260 265 270  
Gly Val His Leu Leu Leu Thr Phe Ile Leu Phe Phe Trp Ala Pro Val  
275 280 285  
Pro Arg Val Leu Gln His Ser Trp Ile Leu Tyr Val Ala Ala Ala Leu

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290 295 300  
Trp Gly Val Gly Ser Ala Leu Asn Lys Thr Gly Leu Ser Thr Leu Leu  
305 310 315 320  
Gly Ile Leu Tyr Glu Asp Lys Glu Arg Gln Asp Phe Ile Phe Thr Ile  
325 330 335  
Tyr His Trp Trp Gln Ala Val Ala Ile Phe Thr Val Tyr Leu Gly Ser  
340 345 350  
Ser Leu His Met Lys Ala Lys Leu Ala Val Leu Leu Val Thr Leu Val  
355 360 365  
Ala Xaa  
370

<210> 3200  
<211> 137  
<212> PRT  
<213> Homo sapiens  
  
<220>  
<221> SITE  
<222> (54)  
<223> Xaa equals any of the naturally occurring L-amino acids  
  
<400> 3200  
Met Val Ser Val Cys Phe Tyr Phe Ile Arg Asp Tyr Phe Trp Trp Leu  
1 5 10 15  
Leu Thr Tyr Thr Phe Phe Ala Leu Met Leu Gln Phe Leu Val Met Leu  
20 25 30  
Thr Lys Cys Gly Phe Ser Phe Leu Lys Ser Cys Leu Gly Phe Ile Val  
35 40 45  
Phe Gly Phe Cys Glu Xaa Phe Ser His Lys Ile Trp Lys Asn Ser Ala  
50 55 60  
Phe Ser Ser Ser Val Thr Ala Phe Cys Phe Cys Pro Pro Ser Phe Ala  
65 70 75 80  
Ile Leu Ile Glu Arg Arg Pro Phe Tyr Ser Leu Ser Cys Leu Leu Thr  
85 90 95  
Ser Phe Phe Cys Phe Pro Phe Leu Cys Leu Ser Val Leu Pro Ser Asp  
100 105 110  
Tyr Phe Ile Arg Thr Ile Cys Gln Phe Pro Asn Ser Leu Phe Gly Phe  
115 120 125  
Val Ser Ser Val Ile Arg Asn Ile Tyr  
130 135

<210> 3201  
<211> 10

<212> PRT  
<213> Homo sapiens

<400> 3201  
Met Ile Gln Cys Cys Ile Met Ile Leu Leu  
1 5 10

<210> 3202  
<211> 39  
<212> PRT  
<213> Homo sapiens

<400> 3202  
Met Met Gln Val Pro Asp Leu Glu Leu Gly Leu Leu Leu Ala Thr Phe  
1 5 10 15  
Leu Leu His Leu Leu Asp Ala Leu Pro Met Leu Leu Ser Leu Gln Ser  
20 25 30  
Cys Arg Glu Pro Thr Ser Ser  
35

<210> 3203  
<211> 50  
<212> PRT  
<213> Homo sapiens

<400> 3203  
Met Phe Leu Ser Ser Asn Phe Pro Ile Phe Ser Ile Leu Phe Phe Ala  
1 5 10 15  
Phe Pro Tyr Phe Cys Leu Pro Val Phe His Phe Lys Leu Leu Ser Ser  
20 25 30  
Pro Asn Cys Phe Ile Leu Pro Leu Pro Ile Asn Leu Ser Ile Phe Val  
35 40 45  
Cys Val  
50

<210> 3204  
<211> 50  
<212> PRT  
<213> Homo sapiens

<400> 3204  
Met Phe Leu Pro Ser Asn Phe Pro Ile Phe Ser Ile Leu Phe Phe Ala  
1 5 10 15  
Phe Pro Tyr Phe Cys Leu Pro Val Phe His Phe Lys Leu Leu Ser Ser  
20 25 30  
Pro Asn Cys Phe Ile Leu Pro Leu Pro Ile Asn Leu Ser Ile Phe Val  
35 40 45



Cys Val  
50

<210> 3205  
<211> 32  
<212> PRT  
<213> Homo sapiens

<400> 3205  
Met Ala Lys Ile His Val Met Ser Ile Asn Leu Tyr Phe Leu Ser Pro  
1 5 10 15  
Ala Leu Leu Ser Met Ala Met Gly Leu Thr Pro Glu Gly Cys Lys Ser  
20 25 30

<210> 3206  
<211> 55  
<212> PRT  
<213> Homo sapiens

<400> 3206  
Met His Ala His Ile Trp Pro Tyr Leu Tyr Met Cys Ala His Ile His  
1 5 10 15  
Met His Leu Cys Thr Tyr Met Pro Ile His Thr His Thr His Thr His  
20 25 30  
Ala His Thr His Gln Pro Gln Ser His Ser Phe Cys Gly Gly Thr Ser  
35 40 45  
Gly Leu Arg Ala Ala Pro Gly  
50 55

<210> 3207  
<211> 23  
<212> PRT  
<213> Homo sapiens

<400> 3207  
Met Ala Pro Ile Met Arg Leu Leu Glu Ala Ile Phe Met Thr Ala Ile  
1 5 10 15  
Val Pro Ser Val Leu Gln Leu  
20

<210> 3208  
<211> 49  
<212> PRT  
<213> Homo sapiens

<400> 3208

His Leu Pro Cys Lys Leu Val Phe Phe Leu Ser Asp Lys Phe Trp Tyr  
1 5 10 15

Cys Arg Leu Ser Pro Asn His Lys Val Leu His Tyr Gly Asp Leu Glu  
20 25 30

Glu Ser Pro Gln Gly Glu Val Pro His Asp Ser Leu Gln Asp Lys Arg  
35 40 45

Lys

<210> 3209

<211> 29

<212> PRT

<213> Homo sapiens

<400> 3209

Val Ile Val Ile Val Gln Leu Cys Ile Phe Tyr Ala Ser Tyr Ser Ala  
1 5 10 15

Trp His Ile Val Gly Ala Gln Leu Thr Leu Leu Lys Glu  
20 25

<210> 3210

<211> 126

<212> PRT

<213> Homo sapiens

<400> 3210

Met Gly Ile Ile Ile Gly Cys Phe Pro Thr Leu Ala Phe Lys Ile Pro  
1 5 10 15

Ile Leu Leu Ser Phe Trp Phe Ile Cys Ser Lys Ala His Ile Glu Glu  
20 25 30

Glu Ile Ser Gly Phe Ser Met Leu Phe Tyr Tyr Leu Phe Ser Leu Leu  
35 40 45

Lys Leu Ile Gln Thr Tyr Leu Leu Thr Pro Phe Ser Leu Leu Thr Phe  
50 55 60

Thr Thr Asn Thr Ser Lys Ile Ile Phe Leu Ile Val Lys Arg Phe Cys  
65 70 75 80

Gln Asp Phe His Cys Asn Gly Cys Tyr Arg Asp Gly Pro Ser Ser Ser  
85 90 95

Ser Pro Val Val Ser Ser Asn Tyr Lys Met Phe Lys Leu Ser Glu Asn  
100 105 110

Leu Lys Ser His His Cys Ser Gln Ser Ala Tyr Thr Ser Ser  
115 120 125

<210> 3211  
 <211> 52  
 <212> PRT  
 <213> Homo sapiens

<400> 3211  
 Met His Thr Ala Cys Leu Cys Asn Ala Ile Ile Ala Leu Leu Lys Val  
           1                  5                  10                  15  
 Pro Leu Ser Phe Gln Arg Tyr Phe Phe Pro Glu Thr Thr Val Tyr Gln  
                   20                  25                  30  
 His Gln Ala Cys Ser Val Thr Ile Ala Pro Glu Ser Cys Arg Ala His  
                   35                  40                  45  
 Cys Cys Pro Glu  
                   50

<210> 3212  
 <211> 50  
 <212> PRT  
 <213> Homo sapiens

<400> 3212  
 Met Val Ser Cys Leu Leu Arg Thr Ala Arg Gln His Cys Val Cys Glu  
           1                  5                  10                  15  
 Asp Val Leu His Leu Leu Leu Cys Ala Ser Gln Leu Leu Leu Leu Lys  
                   20                  25                  30  
 Gln Leu Ser Leu Leu Phe Gly Phe Leu Arg Leu Leu Ala Ser Glu Arg  
                   35                  40                  45  
 His Leu  
           50

<210> 3213  
 <211> 37  
 <212> PRT  
 <213> Homo sapiens

<400> 3213  
 Met Lys Arg Arg Glu Arg Arg Trp Lys Trp Phe Phe Phe Phe Phe Phe  
           1                  5                  10                  15  
 Tyr Phe Leu Ser Phe Phe Phe Phe Phe Phe Leu Val Asn Ser Arg Phe  
                   20                  25                  30  
 Ser Ser Ser Lys Phe  
                   35

<210> 3214  
 <211> 34  
 <212> PRT  
 <213> Homo sapiens

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<400> 3214

Met Lys Asn Ile Ile Ala Ile Ser Pro Lys Phe Leu Ser Trp Leu Gly  
1 5 10 15

Trp Gly Arg Phe Leu Leu Trp Thr Ile Ser Gly Thr Tyr Ser Met Lys  
20 25 30

Ser Arg

<210> 3215

<211> 37

<212> PRT

<213> Homo sapiens

<400> 3215

Met Leu Cys Ser Leu Leu Leu Leu Phe Leu Leu Leu Phe Val Ile Pro  
1 5 10 15

Lys Ser Pro Trp Gln His Thr Ser Gly Trp Phe Ala Thr Cys Ser Glu  
20 25 30

Arg Leu Ile Lys Asn  
35

<210> 3216

<211> 75

<212> PRT

<213> Homo sapiens

<400> 3216

Met Gln Met Leu Arg Lys Leu Phe Thr Ala Ile Arg Ala Leu Phe Leu  
1 5 10 15

Ala Val Cys Val Leu Lys Val Ile Val Ser Leu Val Ser Leu Gly Val  
20 25 30

Gly Leu Arg Asn Leu Cys Gly Gln Ser Ser Gln Pro Leu Asn Glu Glu  
35 40 45

Gly Ser Glu Lys Arg Leu Leu Gly Glu Asn Ser Val Pro Pro Ser Pro  
50 55 60

Ser Arg Glu Gln Thr Ser Thr Ala Ile Val Leu  
65 70 75

<210> 3217

<211> 35

<212> PRT

<213> Homo sapiens

<400> 3217

Met Leu His Leu Cys Ser Leu Leu Gln Gly Val Leu Gly Lys Cys Arg  
1 5 10 15

Tyr Val Tyr Tyr Gly Lys Asn Ser Glu Gly Asn Arg Phe Ile Arg Asp  
 20 25 30

Asp Gln Leu  
 35

<210> 3218  
 <211> 25  
 <212> PRT  
 <213> Homo sapiens

<400> 3218  
 Phe Gln Cys Pro Cys Val His Val Ser Ala Leu Gln Glu Leu Ala Ala  
 1 5 10 15

Gly Val Leu Gly Gly Pro Arg Pro Val  
 20 25

<210> 3219  
 <211> 9  
 <212> PRT  
 <213> Homo sapiens

<400> 3219  
 Met His Ser Cys Arg Asn His Asp Arg  
 1 5

<210> 3220  
 <211> 37  
 <212> PRT  
 <213> Homo sapiens

<400> 3220  
 Met Arg Phe His Ile Leu Leu Ile Val Leu Leu Leu Arg Met Lys Asn  
 1 5 10 15

Gln Gln Gln Ile Leu Cys Trp Thr Cys Gly Leu Val Lys Leu Leu Phe  
 20 25 30

Leu Val Leu Pro Val  
 35

<210> 3221  
 <211> 36  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (16)  
 <223> Xaa equals any of the naturally occurring L-amino acids

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<220>  
 <221> SITE  
 <222> (33)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <400> 3221  
 Met Arg Gly Leu Phe Phe Phe Ser Leu Leu Asp Lys Val Leu Ala Xaa  
   1                  5                  10                  15  
 Cys Asn Cys Leu Leu Ser Tyr Ser Thr Ala Glu Met Lys Gln Ser Phe  
                   20                  25                  30  
 Xaa Cys Thr Asp  
                   35  
  
 <210> 3222  
 <211> 31  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 3222  
 Met Asp Leu Gln Val Cys Met Gly Ser Lys Tyr Trp Phe Met Val Leu  
   1                  5                  10                  15  
 Phe Leu Glu Leu Leu Val Gly Leu Tyr Phe Gly Val Val Phe Gly  
                   20                  25                  30  
  
 <210> 3223  
 <211> 85  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 3223  
 Met Pro Arg Ser Gly Pro Leu Ser Ile Pro Trp Pro Leu Trp Leu Pro  
   1                  5                  10                  15  
 Leu Gly Tyr Val Val Cys Val Arg Glu Trp Cys Ala Gly Ala Val Pro  
                   20                  25                  30  
 Tyr Ala Pro Cys Val Leu Cys Val Ser Arg His Gly Ser Leu Arg Pro  
                   35                  40                  45  
 Met Cys Ala Val Cys Val Leu Pro Val Tyr Val Ala Ser Ser Asp Ala  
                   50                  55                  60  
 Asp Lys Val Gly Asn Asn Pro Cys Gln Ser Gly Leu Gly Pro Asp Phe  
   65                  70                  75                  80  
 Val Leu Phe Leu Thr  
                   85  
  
 <210> 3224  
 <211> 207  
 <212> PRT  
 <213> Homo sapiens

<400> 3224

Met Ala Phe Leu Arg Lys Val Tyr Ser Ile Leu Ser Leu Gln Val Leu  
1 5 10 15

Leu Thr Thr Val Thr Ser Thr Val Phe Leu Tyr Phe Glu Ser Val Arg  
20 25 30

Thr Phe Val His Glu Ser Pro Ala Leu Ile Leu Leu Phe Ala Leu Gly  
35 40 45

Ser Leu Gly Leu Ile Phe Ala Leu Ile Leu Asn Arg His Lys Tyr Pro  
50 55 60

Leu Asn Leu Tyr Leu Leu Phe Gly Phe Thr Leu Leu Glu Ala Leu Thr  
65 70 75 80

Val Ala Val Val Val Thr Phe Tyr Asp Val Tyr Ile Ile Leu Gln Ala  
85 90 95

Phe Ile Leu Thr Thr Thr Val Phe Phe Gly Leu Thr Val Tyr Thr Leu  
100 105 110

Gln Ser Lys Lys Asp Phe Ser Lys Phe Gly Ala Gly Leu Phe Ala Leu  
115 120 125

Leu Trp Ile Leu Cys Leu Ser Gly Phe Leu Lys Phe Phe Phe Tyr Ser  
130 135 140

Glu Ile Met Glu Leu Val Leu Ala Ala Ala Gly Ala Leu Leu Phe Cys  
145 150 155 160

Gly Phe Ile Ile Tyr Asp Thr His Ser Leu Met His Lys Leu Ser Pro  
165 170 175

Glu Glu Tyr Val Leu Ala Ala Ile Ser Leu Tyr Leu Asp Ile Ile Asn  
180 185 190

Leu Phe Leu His Leu Leu Arg Phe Leu Glu Ala Val Asn Lys Lys  
195 200 205

<210> 3225

<211> 33

<212> PRT

<213> Homo sapiens

<400> 3225

Met Arg Tyr Leu Ile Phe Leu Leu Leu His Leu Ser Phe Ser Trp Leu  
1 5 10 15

Gln Lys Ile Met Ala Phe Thr Val Phe Leu Phe Ser Phe Met Ser Ser  
20 25 30

Phe

<210> 3226

<211> 34  
<212> PRT  
<213> Homo sapiens

<400> 3226  
Met Trp Pro Ile Ala Ser Leu Thr Tyr Met Gly Lys Pro Leu Ala Leu  
1 5 10 15  
Cys Ser Pro Ala Phe Leu Leu Cys Leu Val His Ala Val Ser Ser Gln  
20 25 30  
Gln Pro

<210> 3227  
<211> 31  
<212> PRT  
<213> Homo sapiens

<400> 3227  
Met Lys Leu Phe Gln Tyr Ile Gln Tyr Thr Leu Ser Leu Met Leu Leu  
1 5 10 15  
Leu Leu Thr Val Ile Ser Phe Phe Phe Ser Phe Leu Tyr Leu His  
20 25 30

<210> 3228  
<211> 31  
<212> PRT  
<213> Homo sapiens

<400> 3228  
Met Lys Leu Phe Gln Tyr Ile Gln Tyr Thr Leu Ser Leu Met Leu Leu  
1 5 10 15  
Leu Leu Thr Val Ile Ser Phe Phe Phe Ser Phe Leu Tyr Leu His  
20 25 30

<210> 3229  
<211> 33  
<212> PRT  
<213> Homo sapiens

<400> 3229  
Met Tyr Val Val Thr Val Tyr Met Cys Met Ser Val Val Tyr Ala Cys  
1 5 10 15  
Val Ser Val Cys Leu Tyr Val Cys Thr Thr Lys Glu Ala Ala Glu Thr  
20 25 30  
Leu



<210> 3230  
 <211> 55  
 <212> PRT  
 <213> Homo sapiens

<400> 3230  
 Glu Ile Leu His Arg Phe Leu Val Leu Phe Cys Ser Phe Phe Val Phe  
   1                  5                  10                  15  
 Cys Cys Phe Val Ile Tyr Leu Tyr Thr Tyr Lys Ile Leu Leu Lys Ile  
                   20                  25                  30  
 Lys Lys Lys Lys Lys Ser Arg Ser Arg Ile His Trp Ser Arg Phe Ser  
           35                  40                  45  
 Tyr Asn Val Leu Lys Thr Lys  
       50                  55

<210> 3231  
 <211> 75  
 <212> PRT  
 <213> Homo sapiens

<400> 3231  
 Met Gly Ser Ser Gly Leu His Thr Ser Thr Ile Ala Cys Trp Val Asp  
   1                  5                  10                  15  
 Leu Asp Val Cys Leu Leu Tyr Gly Asn Phe Gly Gly Lys Asn Pro Lys  
                   20                  25                  30  
 His Lys Leu Trp Val Glu Ile Leu Thr Val Ser Leu Val Pro Trp Tyr  
           35                  40                  45  
 Ser Pro Cys Leu Ile Cys Thr Phe His Arg Gly Cys Phe Cys Ile Ala  
       50                  55                  60  
 Tyr Thr Ala Leu Ala Gln Glu Ile Val Ala Leu  
   65                  70                  75

<210> 3232  
 <211> 6  
 <212> PRT  
 <213> Homo sapiens

<400> 3232  
 Leu Lys Gly Ile Tyr Leu  
   1                  5

<210> 3233  
 <211> 12  
 <212> PRT  
 <213> Homo sapiens

<400> 3233  
 His Glu Thr Ile Val Thr Trp Arg Pro Gln Leu Leu

1

5

10

<210> 3234  
 <211> 59  
 <212> PRT  
 <213> Homo sapiens

<400> 3234  
 Met Ala Thr Leu Leu Leu Cys Pro His Val Ala Phe Pro Leu Tyr Val  
           1                  5                  10                  15  
 Arg Ala Pro Ala Thr Ser Ile Leu Arg Gly His Gln Ser Tyr Trp Ile  
                   20                  25                  30  
 Arg Val Pro Pro Gln Gln Leu His Val Asn Ile Ile Ser Leu Lys Thr  
                   35                  40                  45  
 Leu Pro Pro Ala Gly His Gly Ser Ser Arg Leu  
           50                  55

<210> 3235  
 <211> 24  
 <212> PRT  
 <213> Homo sapiens

<400> 3235  
 Met Phe Asp Leu Leu Phe Ile Ser Thr Phe Ile Leu Ile Phe Leu Ala  
           1                  5                  10                  15  
 Ser Leu Asp Leu Glu Val Asn Tyr  
                   20

<210> 3236  
 <211> 38  
 <212> PRT  
 <213> Homo sapiens

<400> 3236  
 Met Val Phe Ile Leu Thr Ile Ser Tyr Leu Leu Lys Gly Val Met Val  
           1                  5                  10                  15  
 Ile Thr Lys Ala Phe Arg Met Gln Phe Leu Ile Cys Cys Gly His Asp  
                   20                  25                  30  
 His Lys Lys Ile Ser Gln  
                   35

<210> 3237  
 <211> 32  
 <212> PRT  
 <213> Homo sapiens

<400> 3237

Met Ser Met Glu Cys Phe Ser Ile Cys Tyr Val Ile Ser Asp Phe Phe  
 1 5 10 15  
 Val Gln Cys Phe Val Thr Phe Ile Val Glu Ile Leu Tyr Leu Pro Gly  
 20 25 30

<210> 3238  
 <211> 79  
 <212> PRT  
 <213> Homo sapiens

<400> 3238  
 Met Asp Asp Phe Ile Ser Ile Ser Leu Leu Ser Leu Ala Met Leu Val  
 1 5 10 15  
 Gly Cys Tyr Val Ala Gly Ile Ile Pro Leu Ala Val Asn Phe Ser Glu  
 20 25 30  
 Glu Arg Leu Lys Leu Val Thr Val Leu Gly Ala Gly Leu Leu Cys Gly  
 35 40 45  
 Leu Leu Trp Gln Ser Ser Cys Leu Lys Glu Tyr Met Pro Phe Met Lys  
 50 55 60  
 Ile Phe Leu Arg Glu Asn Thr Thr Lys Gln Val Lys His Ile Met  
 65 70 75

<210> 3239  
 <211> 55  
 <212> PRT  
 <213> Homo sapiens

<400> 3239  
 Met Thr Arg Leu Ser Phe Leu Gly Leu Phe Leu Leu Arg Pro Ala Pro  
 1 5 10 15  
 Ser Trp Ala His Leu Arg Phe Thr Glu Val Ser Gly Gly Pro Lys Ser  
 20 25 30  
 Leu Leu Val Phe Asn Phe Phe Leu Thr Ile His Phe Cys Gly Gln Phe  
 35 40 45  
 Gln Gln His Cys Pro Tyr Phe  
 50 55

<210> 3240  
 <211> 4  
 <212> PRT  
 <213> Homo sapiens

<400> 3240  
 Met Gln Ser Thr

1

<210> 3241  
<211> 30  
<212> PRT  
<213> Homo sapiens

<400> 3241  
Met Tyr Ile Arg Leu Phe Leu Ile Phe Cys Tyr Leu Tyr Ala His Cys  
1 5 10 15  
Ser Glu His Ser Leu Tyr Ile Cys Pro Cys Ser Val Val Ser  
20 25 30

<210> 3242  
<211> 20  
<212> PRT  
<213> Homo sapiens

<400> 3242  
Met Phe Leu Ile Phe Tyr Leu Ala Lys Leu Asp Asn Leu Ser Leu Gly  
1 5 10 15  
Lys Ile Lys Asn  
20

<210> 3243  
<211> 59  
<212> PRT  
<213> Homo sapiens

<400> 3243  
Ser Thr Leu Phe Ser Ile Leu Leu Ser Arg Leu Trp Gly Ser Phe Cys  
1 5 10 15  
Gln Gly Gln Ala Thr Arg Lys Val Glu Val Glu Ile Thr Trp Tyr Val  
20 25 30  
Ser Leu Trp Val Pro Gln Leu Glu Leu Pro Gln Leu Arg Lys Lys Met  
35 40 45  
Arg His Asn Asp Leu Glu Cys Asn Trp Ser Lys  
50 55

<210> 3244  
<211> 30  
<212> PRT  
<213> Homo sapiens

<400> 3244  
Met Leu Ala Leu Asn Ile Phe Phe Leu Ser Leu Thr Ser Ala Ile Asn  
1 5 10 15

Ser Thr Ile Gly Leu Gln Ile Gln Phe Thr Leu Gly Leu Asn  
 20 25 30

<210> 3245  
 <211> 34  
 <212> PRT  
 <213> Homo sapiens

<400> 3245  
 Met Glu Ser Ile Tyr Cys Arg Thr Thr Leu Val Leu Cys Leu Leu Ser  
 1 5 10 15

Leu Pro Ser Ala Leu Gln Leu Ser Pro Ser Leu Ala Ala Ser Ser Leu  
 20 25 30

Cys Ser

<210> 3246  
 <211> 44  
 <212> PRT  
 <213> Homo sapiens

<400> 3246  
 Met Thr Arg His Leu Leu Ile Ile Phe His Asp Cys Phe Leu Phe Ser  
 1 5 10 15

His Cys Val Gly Phe Val Asn Leu Tyr Ile Thr Gly Asn Lys Ile Leu  
 20 25 30

Cys Lys Ile Tyr Trp Gly Lys Ser Ile Trp Ser Ala  
 35 40

<210> 3247  
 <211> 16  
 <212> PRT  
 <213> Homo sapiens

<400> 3247  
 Met Leu Gln Arg Ile Val Leu Ala Cys Cys Trp Pro Ala Ala Ser Gln  
 1 5 10 15

<210> 3248  
 <211> 68  
 <212> PRT  
 <213> Homo sapiens

<400> 3248  
 Met Asp Phe His Phe Leu Val Val Phe Phe Phe Ser Tyr His Phe Pro  
 1 5 10 15

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<213> Homo sapiens

<400> 3256

Met Leu Leu Ile Trp Val Phe Leu Pro Val Leu Thr Thr Asp  
1 5 10

<210> 3257

<211> 118

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (109)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (115)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 3257

Met Ala His Gly Leu Tyr Ser Ile Leu Ile Gly Leu Gly Leu Leu Thr  
1 5 10 15

Gly Leu Leu Leu Leu His Asn Trp Ser Pro Cys Phe Gln Phe Leu Pro  
20 25 30

Ser Ile Ser Ser Asn Leu Thr Pro Lys Val Ile Leu Ser Ser Leu Lys  
35 40 45

Lys Lys Lys Lys Asn Ser Arg Gly Gly Pro Val Pro Asn Ser Pro Tyr  
50 55 60

Ser Glu Ser Tyr Tyr Asn Ser Leu Ala Val Val Leu Gln Arg Arg Asp  
65 70 75 80

Trp Glu Asn Pro Gly Val Thr Gln Leu Asn Arg Leu Ala Ala His Pro  
85 90 95

Pro Phe Ala Ser Trp Arg Asn Ser Glu Glu Ala Arg Xaa Asp Arg Pro  
100 105 110

Ser Gln Xaa Leu Arg Thr  
115

<210> 3258

<211> 35

<212> PRT

<213> Homo sapiens

<400> 3258

Pro Leu Glu Leu Thr Ser Trp Thr Leu Leu Leu Tyr Cys Leu Asn Cys  
1 5 10 15

Ser Ala Leu Tyr Phe Ala Ser Val Cys Glu Phe Cys Cys Phe Trp Gly  
20 25 30









<400> 3269

Met Gln Val Leu Leu Leu Leu Val Gly Phe Phe Gln Met Glu Leu Ser  
1 5 10 15

Leu Phe Ile Leu Lys Asn Met Lys Ile  
20 25

<210> 3270

<211> 18

<212> PRT

<213> Homo sapiens

<400> 3270

Met Thr Asn Leu Leu Phe Ala Tyr Ser Ser Ile Leu Asn Lys Ser Leu  
1 5 10 15

Lys Leu

<210> 3271

<211> 118

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 3271

Met Gly Leu Val Ile Cys Ser Phe Leu Ala Leu Lys Ile Val Val Ser  
1 5 10 15

Lys Arg Asp His Gly Arg Asn His Cys Asn Gly Ser Asn Ser Asn Thr  
20 25 30

Cys Xaa Leu Tyr Cys Ala Leu Gly Leu Pro Gly Val Ser Lys Tyr Ile  
35 40 45

Ser Ile Phe Xaa Met Cys Arg Thr Arg Tyr Leu Gly Thr Cys His Thr  
50 55 60

Pro Leu Ser Arg Tyr Val Leu Ala Ser Leu Glu Leu Lys Gly Leu Glu  
65 70 75 80

Leu Arg Thr Cys Ser Leu Phe Phe Ile His Met Ser Leu Val Gly Leu  
85 90 95

His Pro Asp His Thr Met Thr Ser Tyr Arg Ala Arg Glu Asn Asn Ile  
100 105 110

Ile Ile Ser Ser Phe Ala

```
<400> 3272
Leu Thr Trp Leu Leu Leu Pro His Arg Ala Ala Arg Ser Gln
      1                      5                      10
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1709



<212> PRT  
<213> Homo sapiens

<400> 3276

Met Ala Phe Ser Phe Pro Ala Ser Ala Gly Val Val Arg Val Gly Ala  
1 5 10 15

Arg Arg Ala Leu Leu Phe Pro Phe Leu Leu Pro Gly  
20 25

<210> 3277

<211> 105

<212> PRT

<213> Homo sapiens

<400> 3277

Met Ala His Lys Ile Gly Pro Pro Met Leu Phe Phe Phe Leu Ser Leu  
1 5 10 15

Phe Asn Tyr Leu Leu Arg Leu Ser Lys Ala Lys Gly Asn Cys Glu Ile  
20 25 30

Lys Ser Val Lys Tyr Asn Asn Ile Phe Lys Arg Lys Trp Ile Pro Leu  
35 40 45

Phe Leu Phe Ala Thr Glu Lys Ala Pro Arg Arg His Arg Leu Cys Arg  
50 55 60

Ile Ser Lys Gln Thr Met Met Glu Trp Arg Pro Val Gln Pro Phe Lys  
65 70 75 80

Glu Arg Gln Val Glu Gln Pro Gly Glu Arg Pro Gly Gly Glu Glu Ser  
85 90 95

Glu Thr Pro Glu Ser Lys Ala Val Phe  
100 105

<210> 3278

<211> 22

<212> PRT

<213> Homo sapiens

<400> 3278

Glu Val Gln Tyr Val Gln Ile Phe His Ile Phe Leu Leu Leu Ser Leu  
1 5 10 15

Tyr Leu Phe Ser Leu Phe  
20

<210> 3279

<211> 39

<212> PRT

<213> Homo sapiens

<400> 3279

Met Thr Ile Ile Met Cys Pro Leu Ala Pro Leu Ile Ser Gly Val Cys  
 1 5 10 15  
 Ala Ile Pro Leu Ser Thr Ser Leu Ile Phe Leu Thr Pro Ser Leu Thr  
 20 25 30  
 Lys Ser Leu Gln Lys Pro Leu  
 35

<210> 3280  
 <211> 28  
 <212> PRT  
 <213> Homo sapiens

<400> 3280  
 Met Arg Ser Leu Ile Cys Pro Asn Pro His Gln Arg Leu Leu Phe Ser  
 1 5 10 15  
 Val Leu Leu Ile Ile Thr Ile Leu Met Gly Met Asn  
 20 25

<210> 3281  
 <211> 36  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (25)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (31)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 3281  
 Met Leu Arg Lys Val Ile Leu Cys Met Leu Pro Phe Cys Phe Ile Leu  
 1 5 10 15  
 Leu Leu Lys Gln Asn Cys Gly Val Xaa Leu Cys Val Cys Ala Xaa Pro  
 20 25 30  
 Arg Cys Pro Ser  
 35

<210> 3282  
 <211> 22  
 <212> PRT  
 <213> Homo sapiens

<400> 3282  
 Met Asn Val Phe Ser Lys Asn Val Lys Cys Ile Tyr Phe Leu Tyr Leu  
 1 5 10 15



Tyr Ser Cys Phe Ile Phe  
20

<210> 3283  
<211> 32  
<212> PRT  
<213> Homo sapiens

<400> 3283  
Met Ile Leu Phe Leu Leu Leu Trp Ser Cys Ile Ser Ser Val Arg  
1 5 10 15

Ser His Gly Tyr Leu Gln Ile Lys Ala Pro Ile Asn Gln Met His Leu  
20 25 30

<210> 3284  
<211> 38  
<212> PRT  
<213> Homo sapiens

<400> 3284  
Met Pro Ser Pro Glu Lys Asn Phe Tyr His Leu Leu Leu Pro Phe Leu  
1 5 10 15

Leu Ala Leu Leu Lys Ala Leu Lys Cys Asp Ser Ser Ser Ile Ala Ser  
20 25 30

Thr Ser Met Tyr Asn Phe  
35

<210> 3285  
<211> 21  
<212> PRT  
<213> Homo sapiens

<400> 3285  
Met Ile Leu Phe Phe His Phe Leu Ser Thr Tyr Val Glu Ala Ser Leu  
1 5 10 15

Pro Lys His Asn Leu  
20

<210> 3286  
<211> 71  
<212> PRT  
<213> Homo sapiens

<400> 3286  
Met Ala Ser Trp Glu Thr Phe Lys Arg Pro Ser Leu Ile Leu Ser Ala  
1 5 10 15

Tyr Ser Asn Ser Ile Thr Gly Ile Thr Asp Asp Val Ser Ile Gly Leu  
                   20                                  25                                  30  
 Ala Ser Thr Ser Thr Val Thr Arg Cys Leu Leu Ser Pro Lys Val Leu  
                   35                                  40                                  45  
 Ser Lys Val Ser Val Ala Arg Thr Glu Phe Arg Met Val Ser Arg Tyr  
                   50                                  55                                  60  
 Ala Thr Trp Arg Gly Pro Arg  
                   65                                  70

<210> 3287  
 <211> 145  
 <212> PRT  
 <213> Homo sapiens  
 <220>  
 <221> SITE  
 <222> (85)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 3287  
 Gln Val Val Gly Met Thr Val Glu His Val Glu Cys Gln Asp Ala Gly  
   1                                  5                                  10                                  15  
 Val Arg Glu Ala Pro Gly Pro Leu Glu Gly Ala Gly Glu Ala Gly Gly  
                   20                                  25                                  30  
 Glu Glu Ala Asp Glu Lys Pro Pro Gln Phe Val Cys Arg Glu Cys Lys  
                   35                                  40                                  45  
 Glu Thr Phe Ser Thr Met Thr Leu Leu Arg Arg His Glu Arg Ser His  
                   50                                  55                                  60  
 Pro Glu Leu Arg Pro Phe Pro Cys Thr Gln Cys Gly Lys Ser Phe Ser  
                   65                                  70                                  75                                  80  
 Asp Arg Ala Gly Xaa Arg Lys His Ser Arg Thr His Ser Ser Val Arg  
                   85                                  90                                  95  
 Pro Tyr Thr Cys Pro His Cys Pro Lys Ala Phe Leu Ser Ala Ser Asp  
                   100                                  105                                  110  
 Leu Arg Lys His Glu Arg Thr His Pro Val Pro Met Gly Thr Pro Thr  
                   115                                  120                                  125  
 Pro Leu Glu Pro Leu Val Ala Leu Leu Gly Met Pro Glu Glu Gly Pro  
                   130                                  135                                  140  
 Ala  
 145

<210> 3288  
 <211> 32  
 <212> PRT

<213> Homo sapiens

<400> 3288

Met Asn Leu Pro Ser Val Asn Leu Gly Phe Arg Cys Phe Tyr Leu Phe  
1 5 10 15

Ile Asp Phe Cys Phe Pro Ser Ser Ile Phe Phe Cys Thr Glu Phe Thr  
20 25 30

<210> 3289

<211> 117

<212> PRT

<213> Homo sapiens

<400> 3289

Met Gly Leu Glu Ala Thr Ile Ala Met Leu Leu Leu Ser Gly Ala Leu  
1 5 10 15

Val Ser Gly Pro Tyr Thr Leu Ile Thr Thr Ala Val Ser Ala Asp Leu  
20 25 30

Gly Thr His Lys Ser Leu Lys Gly Asn Ala His Ala Leu Ser Thr Val  
35 40 45

Thr Ala Ile Ile Asp Gly Thr Gly Ser Val Gly Ala Ala Leu Gly Pro  
50 55 60

Leu Leu Ala Gly Leu Leu Ser Pro Ser Gly Trp Ser Asn Val Phe Tyr  
65 70 75 80

Met Leu Met Phe Ala Asp Ala Cys Ala Leu Leu Phe Leu Ile Arg Leu  
85 90 95

Ile His Lys Glu Leu Ser Cys Pro Gly Ser Ala Thr Gly Asp Gln Val  
100 105 110

Pro Phe Lys Glu Gln  
115

<210> 3290

<211> 30

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 3290

Met Arg Leu Phe Ser Gln Met Leu Lys Ser Trp Met Ala Leu Phe Met  
1 5 10 15

Arg Asn Val Trp Leu Glu Met Thr Ile Ala Thr Xaa Ile Gln

20

25

30

<210> 3291  
 <211> 50  
 <212> PRT  
 <213> Homo sapiens

<400> 3291  
 Met Phe Ser Leu Ile Ile Leu Leu Val Lys Tyr Asp Ile Pro Lys Glu  
           1                  5                  10                  15  
 Asn His Phe Asn Leu Ser Ser Leu Leu Thr Lys Asn Thr Trp Leu Lys  
                   20                  25                  30  
 Lys Tyr Ser Leu His Leu Tyr Glu His Leu Pro Tyr Asn Ile Pro Ala  
                   35                  40                  45  
 Ile Ile  
           50

<210> 3292  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<400> 3292  
 Met Lys Asp Gly Ser Arg Ser Leu Pro Gln Leu Ser Ile Cys  
           1                  5                  10

<210> 3293  
 <211> 37  
 <212> PRT  
 <213> Homo sapiens

<400> 3293  
 Met Pro Val Val Phe Val Leu Phe Ser Leu Phe Leu Thr Cys Val His  
           1                  5                  10                  15  
 Asp Ser Phe Asp Ser Ala Ser Lys Ser Lys Ser Cys Val Val Thr Gly  
                   20                  25                  30  
 Ala Phe Ile Tyr Leu  
           35

<210> 3294  
 <211> 56  
 <212> PRT  
 <213> Homo sapiens

<400> 3294  
 Met Leu His Leu Thr Pro Leu Lys Leu Pro Phe Cys Cys Trp Glu Glu  
           1                  5                  10                  15

Ser Gly Ala Ser Leu Ser Ser Cys Thr Ala Ile Pro Met Leu Val Gly  
 20 25 30

Ala Ala Leu Pro Leu Val Pro Gly Val Ala Ser Ala Gln Ser Gln Arg  
 35 40 45

Ala Gly Ser Arg Val Leu His Arg  
 50 55

<210> 3295  
 <211> 90  
 <212> PRT  
 <213> Homo sapiens

<400> 3295  
 Met Thr Ser Pro His Phe Gln Leu Ser Ser Ser Leu Phe Met Trp Leu  
 1 5 10 15

Cys Trp Gly Trp Met Ala Glu Val Gly Trp Thr Asp Gly Tyr Lys Arg  
 20 25 30

Ile Cys Glu Ser Ile Glu Gly Val Thr Lys Ser Leu Arg Asp Lys Arg  
 35 40 45

Gly Asn Arg Thr Phe Gln Lys Val Val Leu Leu Leu Ser Gln Thr Leu  
 50 55 60

Tyr Ile His Val Tyr Phe Cys Lys Leu Leu Ser Pro Phe Gly Gln Thr  
 65 70 75 80

Thr Ile Thr Arg Val Lys Ser Tyr Gln Glu  
 85 90

<210> 3296  
 <211> 37  
 <212> PRT  
 <213> Homo sapiens

<400> 3296  
 Met Arg Lys Gly Ile His Tyr Ile Thr Phe Leu Val Ser Leu Cys Ser  
 1 5 10 15

Leu Phe His Phe Tyr Gln Thr Glu Gly Val Asn Phe Leu Thr Arg Asn  
 20 25 30

Leu Lys Asp Arg Asn  
 35

<210> 3297  
 <211> 6  
 <212> PRT  
 <213> Homo sapiens

<400> 3297  
 Met Cys His Val Thr Thr

1

5

<210> 3298  
 <211> 32  
 <212> PRT  
 <213> Homo sapiens

<400> 3298  
 Met Ser Asp Pro Leu Leu Arg Ile Thr Leu Gly Leu Trp Gly Met Trp  
           1                  5                  10                  15  
 Leu Phe Cys Gly Arg Gln Ala His Leu Gly Phe Leu Trp Arg Gly Arg  
                   20                  25                  30

<210> 3299  
 <211> 13  
 <212> PRT  
 <213> Homo sapiens

<400> 3299  
 Met Ala Ser Leu Gly Gln Ile Leu Phe Trp Ser Ile Ile  
           1                  5                  10

<210> 3300  
 <211> 35  
 <212> PRT  
 <213> Homo sapiens

<400> 3300  
 Met Val Cys Leu Pro Val His Ser Arg Ala Leu Leu Thr Gly Phe Leu  
           1                  5                  10                  15  
 Phe Phe Lys Met Leu Cys Cys Lys Ile Leu Ser Tyr Leu Leu Phe Pro  
                   20                  25                  30

Gly Thr Val  
           35

<210> 3301  
 <211> 62  
 <212> PRT  
 <213> Homo sapiens

<400> 3301  
 Met Gly Leu Ser Ala Ala Ser Gln Ile Cys Gly Leu Cys Leu Leu Trp  
           1                  5                  10                  15  
 Leu Ser Pro His Phe Ala Ser Gln Ile Cys Pro Pro Val His Ile Leu  
                   20                  25                  30

Pro Thr Ser Asn Pro Gly Ser Val Ser Ala Ser Gln Arg Thr Trp Thr  
 35 40 45

Lys Ala Leu Ala Val Ser Gly Leu Val Asp Pro Ser Thr Ser  
 50 55 60

<210> 3302  
 <211> 28  
 <212> PRT  
 <213> Homo sapiens

<400> 3302  
 Met Thr Phe Phe Leu Leu Trp Phe Ile Cys Ile Leu Leu Val Leu Phe  
 1 5 10 15

Gln Lys Asn Ser Ile Glu Met Arg His Arg Tyr Gln  
 20 25

<210> 3303  
 <211> 74  
 <212> PRT  
 <213> Homo sapiens

<400> 3303  
 Met Leu Tyr Arg Gly Ser Trp Leu Leu Gly Leu Ser Phe Ala Ser Thr  
 1 5 10 15

Trp Leu His Val Ala Gly Thr Leu Val Pro Arg Glu Arg Thr Arg Ala  
 20 25 30

Val Arg Pro Ala Asp Gly His Arg Gly Ala Thr Ala Arg Leu Ala Leu  
 35 40 45

Val Pro Arg Glu Arg Lys Ser Glu Ala Ala Asp Pro Glu Gly Lys Ala  
 50 55 60

Glu Ser Ala Met Gln Leu Gln Met Ser Gly  
 65 70

<210> 3304  
 <211> 18  
 <212> PRT  
 <213> Homo sapiens

<400> 3304  
 Met Cys Ile Gln Leu Leu Leu Leu Leu Val Trp Gly Arg Gly Leu  
 1 5 10 15

Glu Ser

<210> 3305  
 <211> 30

<212> PRT  
<213> Homo sapiens

<400> 3305  
Met Leu Ile Ser Leu Ser Leu Ser Leu Ser Leu Leu Thr Lys Val Tyr  
1 5 10 15  
Gln Arg Pro Gln Ala Gln Gly Leu Ser Gln Val Lys Ala Gly  
20 25 30

<210> 3306  
<211> 26  
<212> PRT  
<213> Homo sapiens

<400> 3306  
Asn Phe Lys His Gln Phe Thr Met Leu Ile Lys Ser Thr Phe Ile Phe  
1 5 10 15  
Ser Ser Glu Leu Asn Asn Pro Ile Asn Lys  
20 25

<210> 3307  
<211> 20  
<212> PRT  
<213> Homo sapiens

<400> 3307  
Met Tyr Lys Ser Cys Gly Phe Leu Cys Phe Tyr Asp Lys Ser Gly Ile  
1 5 10 15  
Val Phe Leu Asn  
20

<210> 3308  
<211> 34  
<212> PRT  
<213> Homo sapiens

<400> 3308  
Met Tyr Trp Trp Pro Phe Ile Phe Pro Ile Phe Leu Ala Ala Thr Glu  
1 5 10 15  
Ile Cys Pro Ser Phe Ser Gly Asp Asn Phe Ser Val Phe Ser Lys Ser  
20 25 30

Ser Ile

<210> 3309  
<211> 16  
<212> PRT  
<213> Homo sapiens



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<400> 3309

Met Trp Ile Gly Val Val Leu Ser Ile Trp Lys Leu Leu Leu Glu Ile  
1 5 10 15

<210> 3310

<211> 27

<212> PRT

<213> Homo sapiens

<400> 3310

Met Ala Thr Leu Thr Phe Ser Leu Arg Lys Pro Leu Gln Arg Ser Leu  
1 5 10 15

Ile Arg Pro Ser Arg Leu Pro Leu Cys Cys Phe  
20 25

<210> 3311

<211> 68

<212> PRT

<213> Homo sapiens

<400> 3311

Met Ser Cys Tyr Phe Leu Leu Cys Leu Ser Leu Leu Gln Pro His Trp  
1 5 10 15

Pro Ser Tyr Cys Ser Ile Asn Met Pro Gly Thr Phe Leu Pro Gln Gly  
20 25 30

Leu Cys Thr Ser His Ala Phe Cys Ser Ser Arg Phe Leu Gln Ser Ser  
35 40 45

Phe Pro Thr Ser Phe Met Ser Leu Leu Val His Leu Leu Met Arg Leu  
50 55 60

Ser Tyr His Val  
65

<210> 3312

<211> 12

<212> PRT

<213> Homo sapiens

<400> 3312

Met Trp Arg His Thr Glu Leu Pro Pro Val Tyr Val  
1 5 10

<210> 3313

<211> 44

<212> PRT





85

90

95

Asp Phe Phe Arg Lys Met Ile Ser Ile Ser Phe Gln Pro  
 100 105

<210> 3322  
 <211> 19  
 <212> PRT  
 <213> Homo sapiens

<400> 3322  
 Met Leu Glu Tyr Gly Leu Leu Leu Leu Val Ile Leu Val Leu Phe Pro  
 1 5 10 15

Ser Phe Pro

<210> 3323  
 <211> 26  
 <212> PRT  
 <213> Homo sapiens

<400> 3323  
 Met His Pro Asp Leu Trp Pro Asp Cys Gly Leu Trp Leu Pro Gln Ala  
 1 5 10 15

Phe Ser Ser Leu His Trp Val Phe Leu His  
 20 25

<210> 3324  
 <211> 36  
 <212> PRT  
 <213> Homo sapiens

<400> 3324  
 Met Ile Arg Tyr Trp Gly Phe Gly Gly Thr Gln Thr Leu Ala Ile Leu  
 1 5 10 15

Cys Val Pro Leu Asp Gln Ser Pro Lys Arg Arg Gly Ala Gly Arg Lys  
 20 25 30

Glu Trp Gly Ser  
 35

<210> 3325  
 <211> 63  
 <212> PRT  
 <213> Homo sapiens

<400> 3325  
 Met Phe Tyr Ile Leu Phe Ile Cys Leu Gly Ser Arg Val Leu Asn Leu  
 1 5 10 15







<211> 19  
 <212> PRT  
 <213> Homo sapiens

<400> 3338  
 Gly Met Leu His Asp Gly Gln Leu Leu Pro Ser Leu Val Ile Ile His  
 1 5 10 15  
 Cys Ser Cys

<210> 3339  
 <211> 29  
 <212> PRT  
 <213> Homo sapiens

<400> 3339  
 Leu Glu Leu Leu Val Cys Asn Tyr Val Tyr Gly Asn Gly Val Val Phe  
 1 5 10 15  
 Met Ile Cys Ile Tyr Ile Ile Ile Trp Met Tyr Ile Tyr  
 20 25

<210> 3340  
 <211> 50  
 <212> PRT  
 <213> Homo sapiens

<400> 3340  
 Trp Pro Leu Leu Pro Gln Val Leu Gln Glu Arg Val Trp Trp Ala His  
 1 5 10 15  
 Leu Gln Ser Gln Leu Leu Gly Lys Leu Gln Gly Leu Leu Glu Pro Arg  
 20 25 30  
 Lys Ser Gln Leu Ala Gly His Leu Glu Leu Pro Lys Asn Thr Leu Ser  
 35 40 45  
 Arg Lys  
 50

<210> 3341  
 <211> 62  
 <212> PRT  
 <213> Homo sapiens

<400> 3341  
 Met Phe Leu Gly Ser Leu Gly Ile Cys Arg Phe Ala Leu Trp Ile Leu  
 1 5 10 15  
 Thr Val Phe Lys Val Leu Met Ile Ser Gln Ser Phe Phe Leu Thr Ser  
 20 25 30  
 Glu Lys Lys Met His Cys Phe Leu Ile Phe Pro Met Gln Asn Gln Asn  
 35 40 45



Lys Lys Leu Ile Leu Cys Phe Lys Lys Lys Lys Lys Asn Ser  
 50 55 60

<210> 3342  
 <211> 40  
 <212> PRT  
 <213> Homo sapiens

<400> 3342  
 Met Lys Gly Val Leu Leu Ile Asn Leu Leu Tyr Tyr Leu Asp Thr Phe  
 1 5 10 15

Val Tyr Ser Leu Gln Pro Thr Cys Ile Arg Gly Ile Gly Val Gly Leu  
 20 25 30

Asn His Gln His Tyr Phe Ile Lys  
 35 40

<210> 3343  
 <211> 142  
 <212> PRT  
 <213> Homo sapiens

<400> 3343  
 Met Cys Ala Pro Ala Phe Pro Ala Trp Asn Val Phe Trp Leu Ser Cys  
 1 5 10 15

Ser Asn Ile Cys Glu Pro Ser Val Cys Pro Val Ser Leu Gly Ser Leu  
 20 25 30

Gln Val Gln Glu His Thr Cys Arg Ala Gln His Asp Asp Gly Val Lys  
 35 40 45

Gly Arg Lys Gln Ser Ser Glu Gly Val Gly Arg Trp Ala Val Cys Pro  
 50 55 60

Arg Gln Val Pro Ser Pro Pro Ala Ser Phe Leu Arg Pro Gly Arg Ala  
 65 70 75 80

Ala Met Val Leu Ala Ala Ser Pro Ser Val Leu Thr Val Ser Leu His  
 85 90 95

Leu Gly Pro Pro Glu Ser Gln Val Ser Phe Ser Ser Asn Leu Thr Arg  
 100 105 110

Glu Lys Lys His Gly Cys Ala Trp Pro Thr Gly Pro Gly Gly Asp Gly  
 115 120 125

Pro Pro Arg Ser Leu Lys Leu Trp Met Ala Ala Val Leu Tyr  
 130 135 140

<210> 3344  
 <211> 43  
 <212> PRT

<213> Homo sapiens

<400> 3344

Met Met Leu Leu Asn Ser Ile Gln Val Leu Leu Tyr Val Pro Ile Val  
1 5 10 15

Phe Arg Phe Leu Thr Asp Cys Cys Gly Cys Thr Ser Leu Ser Asp Cys  
20 25 30

Ser Leu Ile Tyr Cys Arg Thr Leu Gly Cys Phe  
35 40

<210> 3345

<211> 36

<212> PRT

<213> Homo sapiens

<400> 3345

Met Cys Ile Leu Phe Cys Thr Pro Ile Ser Leu Phe Leu Cys Trp Leu  
1 5 10 15

Pro Gly Pro Ser Leu Glu Pro Trp Val Glu Arg Leu Leu Lys Asp His  
20 25 30

His Arg Gln Pro  
35

<210> 3346

<211> 81

<212> PRT

<213> Homo sapiens

<400> 3346

Met His Pro Phe Phe Pro Gln Arg Gly Trp Thr Gln Val Ser Leu Gly  
1 5 10 15

Val Gly Ala Pro Ala Leu Cys His Arg His Gly Glu Gly Phe Leu Leu  
20 25 30

Thr Pro Ser Ala Leu Pro Thr Trp Val Val Leu Ser Lys Lys Val Ile  
35 40 45

Pro Pro Ala Leu Ala Pro Phe Pro Arg Thr Lys His Val Asp His Val  
50 55 60

Gln Tyr Phe Leu Leu Cys Arg Glu Ala Ala Met Ser Glu Ile Lys Ala  
65 70 75 80

Val

<210> 3347

<211> 7

<212> PRT

<213> Homo sapiens

<400> 3347

Met Thr Ile Phe Glu Pro Ser  
1 5

<210> 3348

<211> 51

<212> PRT

<213> Homo sapiens

<400> 3348

Met Gly Ala Ala Ala Pro Ala Trp Val Leu Leu Cys Ile Pro Ala  
1 5 10 15

Gly Gln Gly Pro Leu Pro Gly Pro Arg Leu Pro Phe His Ile Pro Ile  
20 25 30

Leu Lys Phe Cys Tyr Cys Gly Ile Leu Val Glu Lys Lys Glu Pro Arg  
35 40 45

Gly Cys Phe  
50

<210> 3349

<211> 40

<212> PRT

<213> Homo sapiens

<400> 3349

Met Thr Ala Val Gly Gly Ser Ile Cys Val Met Leu Val Val Ile Cys  
1 5 10 15

Leu Leu Val Ala Tyr Ile Thr Glu Asn Leu Met Arg Pro Ala Leu Ala  
20 25 30

Arg Pro Gly Leu Arg Arg His Pro  
35 40

<210> 3350

<211> 17

<212> PRT

<213> Homo sapiens

<400> 3350

Met Ser Thr Gly His Gly Ala Cys Leu Val Ser Leu Pro Val Val Gln  
1 5 10 15

Ala

<210> 3351

<211> 41

<212> PRT



His Asp Gly Gln Pro Lys Glu Met Pro Gln Leu Pro Val Leu Ile Ser  
 35 40 45

Cys Ala Asp Gln  
 50

<210> 3355  
 <211> 38  
 <212> PRT  
 <213> Homo sapiens

<400> 3355  
 Met Leu Ile Thr Leu Ile Ile Val Val Gly Thr Phe Cys Ser Trp Val  
 1 5 10 15

Gln Ala Tyr Phe Thr His Ile Trp Leu Leu Cys Leu Phe Trp Lys Thr  
 20 25 30

Ala Ala Ser Trp Ser Asp  
 35

<210> 3356  
 <211> 22  
 <212> PRT  
 <213> Homo sapiens

<400> 3356  
 Met Lys Phe Val Leu Phe Tyr Leu Cys Thr Gly Tyr Pro Leu Phe Trp  
 1 5 10 15

Glu Cys Phe Phe Ile Leu  
 20

<210> 3357  
 <211> 15  
 <212> PRT  
 <213> Homo sapiens

<400> 3357  
 Asp Thr Ile Val Leu Ser Gly Cys Leu Cys Leu Cys Tyr Tyr Val  
 1 5 10 15

<210> 3358  
 <211> 10  
 <212> PRT  
 <213> Homo sapiens

<400> 3358  
 Met Gly Thr Ser Ser Ile Leu Gln Met Lys  
 1 5 10

<210> 3359  
 <211> 43  
 <212> PRT  
 <213> Homo sapiens

<400> 3359  
 Met Val Cys Gly Glu Trp Val Pro Gly Met Leu Arg Ala Leu Arg Ala  
 1 5 10 15  
 Ala Leu Phe Leu Phe Ile Ala Ile Ser Val Lys Leu Ser Phe Leu Gly  
 20 25 30  
 Asn Val His Arg Leu Ala Thr Ala Asp Val Leu  
 35 40

<210> 3360  
 <211> 68  
 <212> PRT  
 <213> Homo sapiens

<400> 3360  
 Lys Leu Trp Gln Thr Met Cys Asp Ala Phe Phe Cys Ile Gly Cys Ser  
 1 5 10 15  
 His Trp Ile Ala Gly Ser Gly Tyr Cys Val Ile Val Ala Ala Leu Gly  
 20 25 30  
 Leu Ala Glu Gly Pro Leu Cys Leu Asp Ser Leu Gly Gln Trp Asn Tyr  
 35 40 45  
 Thr Phe Ala Gln His Arg Gly Pro Val Pro Ser Gly Tyr Leu His Met  
 50 55 60  
 Val Arg Val His  
 65

<210> 3361  
 <211> 26  
 <212> PRT  
 <213> Homo sapiens

<400> 3361  
 Met Ala Leu Thr Gly Ala Phe Ile Val Lys Ser Tyr Ser Arg Gly Trp  
 1 5 10 15  
 Ser Cys Gly Cys Val Cys Ser Val Pro Ile  
 20 25

<210> 3362  
 <211> 10  
 <212> PRT  
 <213> Homo sapiens

<400> 3362

Met Leu Trp Ile Phe Lys Trp Gln Val Leu  
 1 5 10

<210> 3363  
 <211> 218  
 <212> PRT  
 <213> Homo sapiens

<400> 3363  
 Met Gly Met Trp Ser Ile Gly Ala Gly Ala Leu Gly Ala Ala Ala Leu  
 1 5 10 15  
 Ala Leu Leu Leu Ala Asn Thr Asp Val Phe Leu Ser Lys Pro Gln Lys  
 20 25 30  
 Ala Ala Leu Glu Tyr Leu Glu Asp Ile Asp Leu Lys Thr Leu Glu Lys  
 35 40 45  
 Glu Pro Arg Thr Phe Lys Ala Lys Glu Leu Trp Glu Lys Asn Gly Ala  
 50 55 60  
 Val Ile Met Ala Val Arg Arg Pro Gly Cys Phe Leu Cys Arg Glu Glu  
 65 70 75 80  
 Ala Ala Asp Leu Ser Ser Leu Lys Ser Met Leu Asp Gln Leu Gly Val  
 85 90 95  
 Pro Leu Tyr Ala Val Val Lys Glu His Ile Arg Thr Glu Val Lys Asp  
 100 105 110  
 Phe Gln Pro Tyr Phe Lys Gly Glu Ile Phe Leu Asp Glu Lys Lys Lys  
 115 120 125  
 Phe Tyr Gly Pro Gln Arg Arg Lys Met Met Phe Met Gly Phe Ile Arg  
 130 135 140  
 Leu Gly Val Trp Tyr Asn Phe Phe Arg Ala Trp Asn Gly Gly Phe Ser  
 145 150 155 160  
 Gly Asn Leu Glu Gly Glu Gly Phe Ile Leu Gly Gly Val Phe Val Val  
 165 170 175  
 Gly Ser Gly Lys Gln Gly Ile Leu Leu Glu His Arg Glu Lys Glu Phe  
 180 185 190  
 Gly Asp Lys Val Asn Leu Leu Ser Val Leu Glu Ala Ala Lys Met Ile  
 195 200 205  
 Lys Pro Gln Thr Leu Ala Ser Glu Lys Lys  
 210 215

<210> 3364  
 <211> 195  
 <212> PRT  
 <213> Homo sapiens

<400> 3364







Lys Ala Phe Leu Ala Val Val Ser Phe Ile Leu Val Val Ser Ile Lys  
 20 25 30

Cys Ser Glu Gly Ala Asp Thr Ser Arg Lys Gly Phe Ser  
 35 40 45

<210> 3371  
 <211> 38  
 <212> PRT  
 <213> Homo sapiens

<400> 3371  
 Met Ser Ala Leu Leu Glu Ile Leu Ala Leu Leu Leu His Ser Val Ser  
 1 5 10 15

Gly Pro Gly Met Gly Val Phe Arg Ser Ser Pro Ser Phe Pro Gly Ala  
 20 25 30

Ala Thr Trp Leu Phe Gly  
 35

<210> 3372  
 <211> 38  
 <212> PRT  
 <213> Homo sapiens

<400> 3372  
 Met Ser Ala Leu Leu Glu Ile Leu Ala Leu Leu Leu His Ser Val Ser  
 1 5 10 15

Gly Pro Gly Met Gly Val Phe Arg Ser Ser Pro Ser Phe Pro Gly Ala  
 20 25 30

Ala Thr Trp Leu Phe Gly  
 35

<210> 3373  
 <211> 30  
 <212> PRT  
 <213> Homo sapiens

<400> 3373  
 Met Arg Phe Phe Cys Ser Leu Met Phe Phe Gly Tyr Gly Tyr Gly Ile  
 1 5 10 15

Cys Arg Leu Gly Gly Lys Glu Leu Lys Ile Thr Gly Ala Gly  
 20 25 30

<210> 3374  
 <211> 35  
 <212> PRT  
 <213> Homo sapiens

<400> 3374

Met Asn Asn Leu Leu Ile Leu Phe Leu Lys Thr Ser Cys Leu Cys Phe  
1 5 10 15

Leu Ile Cys Val Cys Ile Phe Lys His Phe Val Arg Leu Ser Ala Thr  
20 25 30

Leu Gly Ser  
35

<210> 3375

<211> 78

<212> PRT

<213> Homo sapiens

<400> 3375

Met Tyr Ile Ala Leu Ser Ser Val His Ala Leu Ile Leu Cys Gly Phe  
1 5 10 15

Gln Phe Ile Ser Cys Val Arg Gly Gln Trp Thr Glu Cys Ser Asp Phe  
20 25 30

Ser Pro Pro Ile Thr Val Ile Leu Leu Ile Phe Leu Cys Leu Glu Gly  
35 40 45

Leu Leu Phe Phe Thr Phe Thr Gly Ser Tyr Val Trp His Pro Asn Pro  
50 55 60

Leu His Met Gln Arg Arg Asp Gly Asp Arg Ala Ile Glu Lys  
65 70 75

<210> 3376

<211> 8

<212> PRT

<213> Homo sapiens

<400> 3376

Met Leu Ala Ser Gly Glu Tyr Ile  
1 5

<210> 3377

<211> 34

<212> PRT

<213> Homo sapiens

<400> 3377

Met Asn Val Phe Phe Phe Pro Cys Trp Ser Leu Ile Phe Met Ile Val  
1 5 10 15

Phe Gln Phe Leu Asp Leu Thr Ser Cys Met Arg Ser Thr Glu Ser Thr  
20 25 30

Gln Glu



<400> 3381

Met Phe Ser Trp Lys Leu Leu Tyr Ser Leu Ile Leu His Gly Leu Ala  
1 5 10 15

Leu Asn Cys Leu  
20

<210> 3382

<211> 30

<212> PRT

<213> Homo sapiens

<400> 3382

Met Phe Val Leu Leu Phe Ser Glu Ile Phe Leu Ser Thr Val Ala Gly  
1 5 10 15

Lys Leu Arg Ser Gly Pro Cys Ala Ala Cys Leu Leu Leu Pro  
20 25 30

<210> 3383

<211> 34

<212> PRT

<213> Homo sapiens

<400> 3383

Met Thr Arg Asp Asp Thr Leu Ser Leu Trp Leu Gly Leu Val Ile Leu  
1 5 10 15

Ile Asn Cys Leu Tyr Leu Tyr Leu Thr Glu Thr Ser Leu Lys Met Pro  
20 25 30

Leu Tyr

<210> 3384

<211> 28

<212> PRT

<213> Homo sapiens

<400> 3384

Ile Leu Ser Thr Gly Phe Cys Phe Leu Leu Phe Leu Phe Val Leu Arg  
1 5 10 15

Lys Gly Lys Lys Ser Gln Val Cys Leu Thr Ile Gln  
20 25

<210> 3385

<211> 37

<212> PRT

<213> Homo sapiens

<400> 3385



<223> Xaa equals any of the naturally occurring L-amino acids

<400> 3388  
 Met Leu Leu Val Leu Thr Val Phe Ser Phe His Lys His Cys Ser Gly  
 1 5 10 15

Lys Leu Val Leu Cys Ala Ala Gly Pro Phe Ala Tyr Val Xaa Thr Ile  
 20 25 30

Asn Gln Xaa Leu Asn Leu Lys Lys Lys  
 35 40

<210> 3389  
 <211> 8  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (2)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (7)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (8)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 3389  
 Val Xaa Pro Cys Gly Cys Xaa Xaa  
 1 5

<210> 3390  
 <211> 40  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (3)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (27)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (29)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>







Thr Pro Gly Ala Pro Gly  
35

<210> 3396  
<211> 19  
<212> PRT  
<213> Homo sapiens

<400> 3396  
Met Trp Leu Met Met Gln Leu Leu Ser Phe Phe Val Phe Leu Cys Leu  
1 5 10 15

Leu Tyr Leu

<210> 3397  
<211> 19  
<212> PRT  
<213> Homo sapiens

<400> 3397  
Met Trp Leu Met Met Gln Leu Leu Ser Phe Phe Val Phe Leu Cys Leu  
1 5 10 15

Leu Tyr Leu

<210> 3398  
<211> 19  
<212> PRT  
<213> Homo sapiens

<400> 3398  
Met Trp Leu Met Met Gln Leu Leu Ser Phe Phe Val Phe Leu Cys Leu  
1 5 10 15

Leu Tyr Leu

<210> 3399  
<211> 134  
<212> PRT  
<213> Homo sapiens

<400> 3399  
Met Glu Met Met Glu Ser Gln Thr Leu Leu Leu Thr Leu Leu Ser Val  
1 5 10 15

Lys Met Glu Asn Asn Leu Ala Glu Phe Glu Arg Arg Ala Glu Lys Asn  
20 25 30

Leu Leu Ile Met Cys Lys Glu Lys Glu Lys Leu Gln Lys Lys Ala His





<210> 3407  
 <211> 74  
 <212> PRT  
 <213> Homo sapiens

<400> 3407  
 Met Glu Gln Val His Pro Gly Arg Thr Arg Thr Arg Leu His Cys Gly  
 1 5 10 15  
 Leu Glu Ile Gln Gly Cys Gln Arg Phe Leu Leu Cys Ala Phe Leu Ile  
 20 25 30  
 Ser Trp Leu Pro Gly Gly Ala Pro Gly Cys His Ser Pro Leu Leu Trp  
 35 40 45  
 Pro Tyr Ser Ile Phe His Ser Asn Ala Ser Leu Cys Gly Arg Ser Ser  
 50 55 60  
 Asp Asn Ser Ser Asp Gln Asp Phe Lys Ile  
 65 70

<210> 3408  
 <211> 435  
 <212> PRT  
 <213> Homo sapiens

<400> 3408  
 Met Gly His Asn Phe Gly Met Phe His Asp Asp Tyr Ser Cys Lys Cys  
 1 5 10 15  
 Pro Ser Thr Ile Cys Val Met Asp Lys Ala Leu Ser Phe Tyr Ile Pro  
 20 25 30  
 Thr Asp Phe Ser Ser Cys Ser Arg Leu Ser Tyr Asp Lys Phe Phe Glu  
 35 40 45  
 Asp Lys Leu Ser Asn Cys Leu Phe Asn Ala Pro Leu Pro Thr Asp Ile  
 50 55 60  
 Ile Ser Thr Pro Ile Cys Gly Asn Gln Leu Val Glu Met Gly Glu Asp  
 65 70 75 80  
 Cys Asp Cys Gly Thr Ser Glu Glu Cys Thr Asn Ile Cys Cys Asp Ala  
 85 90 95  
 Lys Thr Cys Lys Ile Lys Ala Thr Phe Gln Cys Ala Leu Gly Glu Cys  
 100 105 110  
 Cys Glu Lys Cys Gln Phe Lys Lys Ala Gly Met Val Cys Arg Pro Ala  
 115 120 125  
 Lys Asp Glu Cys Asp Leu Pro Glu Met Cys Asn Gly Lys Ser Gly Asn  
 130 135 140  
 Cys Pro Asp Asp Arg Phe Gln Val Asn Gly Phe Pro Cys His His Gly  
 145 150 155 160  
 Lys Gly His Cys Leu Met Gly Thr Cys Pro Thr Leu Gln Glu Gln Cys



Met Lys Val Leu Ser Phe Leu Leu Cys Ile Arg Ile Ser Phe Leu Phe  
 1 5 10 15

Val Val Glu Ser Ile Val Arg Gly Ile Ser Lys Leu Asn Glu Val Asn  
 20 25 30

<210> 3410  
 <211> 32  
 <212> PRT  
 <213> Homo sapiens

<400> 3410  
 Met Lys Val Leu Ser Phe Leu Leu Cys Ile Arg Ile Ser Phe Leu Phe  
 1 5 10 15

Val Val Glu Ser Ile Val Arg Gly Ile Ser Lys Leu Asn Glu Val Asn  
 20 25 30

<210> 3411  
 <211> 27  
 <212> PRT  
 <213> Homo sapiens

<400> 3411  
 Met Leu His Ile Ile Gln Lys Leu Tyr Pro Asp His Leu Phe Leu Phe  
 1 5 10 15

Phe Ile Val Lys Tyr Leu Cys Phe Ile His Cys  
 20 25

<210> 3412  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<400> 3412  
 Met Gly Ile Thr His Glu Tyr Leu Cys Val Cys Val Cys Val  
 1 5 10

<210> 3413  
 <211> 105  
 <212> PRT  
 <213> Homo sapiens

<400> 3413  
 Met Trp Gly Ala Phe Trp Asn Thr Leu Leu Cys Pro Val Ser Gly Ala  
 1 5 10 15







Asp Ser Val Thr Glu Tyr Glu Leu Val Ala Arg Val Leu Trp  
 20 25 30

<210> 3421  
 <211> 6  
 <212> PRT  
 <213> Homo sapiens

<400> 3421  
 Met Thr Tyr Met Val Ala  
 1 5

<210> 3422  
 <211> 39  
 <212> PRT  
 <213> Homo sapiens

<400> 3422  
 Met Ala Ile Glu Phe Tyr Val Phe Ala Phe Phe Val Leu Ile Glu Ile  
 1 5 10 15  
 Ile Pro Ser Ser Leu Ser Ala Tyr Leu Met Thr Pro Ala Phe Gln Ile  
 20 25 30  
 His Arg Phe Thr Phe Ser Ile  
 35

<210> 3423  
 <211> 56  
 <212> PRT  
 <213> Homo sapiens

<400> 3423  
 Met Pro Asn Asn Leu Ser Leu Phe Tyr Val Phe Ser Leu Ser Phe Leu  
 1 5 10 15  
 Ser Ser Phe Ile Pro Leu Ile Val Thr Ala Lys Lys Met Ser Val Pro  
 20 25 30  
 Val Thr Leu Pro Pro Leu Phe Ser Leu Ser Pro Ala Leu Trp Ser Gly  
 35 40 45  
 Pro Trp Ser Thr Ser Asn Ser Pro  
 50 55

<210> 3424  
 <211> 44  
 <212> PRT  
 <213> Homo sapiens

<400> 3424  
 Met His Gln Asn Val Leu Gly Arg Val Ser Trp Leu Arg Ile Gly Leu

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Ser

<210> 3427  
<211> 29  
<212> PRT  
<213> Homo sapiens

<400> 3427  
Met Arg Leu Gln Ser Cys Ser Ser Gln Thr Ala Ala Leu Leu Leu Ser  
1 5 10 15  
Phe Tyr Leu Pro Glu Ser Cys Ala Ser Gln Ser Pro Gly  
20 25

<210> 3428  
<211> 39  
<212> PRT  
<213> Homo sapiens

<400> 3428  
Met Cys Thr Leu Leu Ile Phe Phe Leu Ile Leu Pro His Trp Trp Leu  
1 5 10 15  
Gly Thr Trp Glu Arg Glu Gln Ala Phe Leu His Gly Pro Ser Leu Gly  
20 25 30  
Cys Gly Glu Gln Arg Pro Met  
35

<210> 3429  
<211> 39  
<212> PRT  
<213> Homo sapiens

<400> 3429  
Met Cys Thr Leu Leu Ile Phe Phe Leu Ile Leu Pro His Trp Trp Leu  
1 5 10 15  
Gly Thr Trp Glu Arg Glu Gln Ala Phe Leu His Gly Pro Ser Leu Gly  
20 25 30  
Cys Gly Glu Gln Arg Pro Met  
35

<210> 3430  
<211> 39  
<212> PRT  
<213> Homo sapiens

<400> 3430  
Met Cys Thr Leu Leu Ile Phe Phe Leu Ile Leu Pro His Trp Trp Leu  
1 5 10 15

Gly Thr Trp Glu Arg Glu Gln Ala Phe Leu His Gly Pro Ser Leu Gly  
 20 25 30

Cys Gly Glu Gln Arg Pro Met  
 35

<210> 3431  
 <211> 32  
 <212> PRT  
 <213> Homo sapiens

<400> 3431  
 Met His Ile Leu Asn Val Cys Leu Tyr Phe Phe Ile Leu Asn Ile Ile  
 1 5 10 15  
 Phe Val Pro Leu Cys Phe Thr Ser Asn Ile Tyr Leu Tyr Lys Cys Val  
 20 25 30

<210> 3432  
 <211> 10  
 <212> PRT  
 <213> Homo sapiens

<400> 3432  
 Met Cys Cys Cys Met Arg Leu His Cys Cys  
 1 5 10

<210> 3433  
 <211> 92  
 <212> PRT  
 <213> Homo sapiens

<400> 3433  
 Met Arg Arg Arg Met Arg Met Leu Ala Leu Trp Gln Gln Leu Leu His  
 1 5 10 15  
 Pro Ser Gly Asp Pro Glu Gln Thr Gln Ser Trp Ser Val Trp Lys Val  
 20 25 30  
 Pro Ser Ser Gly Gly Ser Cys Arg Cys Arg Ser Ser Gly Thr Gln Ser  
 35 40 45  
 Ser Ile Gly Thr Arg Cys Ser Ala Arg Trp Ala Gly Val Val Gly Ser  
 50 55 60  
 Arg Pro Gln His His Gly Cys Gln Leu Pro Gly Trp Thr Lys Gln Gly  
 65 70 75 80  
 Ala Thr Ser Pro Phe Pro Arg Phe Gln Ser Ser Leu  
 85 90

<210> 3434  
 <211> 103  
 <212> PRT  
 <213> Homo sapiens

<400> 3434  
 Met Leu Gln Asn Ser Val Tyr Val Asn Phe Leu Leu Thr Gly Leu Val  
 1 5 10 15  
 Ala Gln Leu Ala Cys His Pro Gln Pro Leu Leu Arg Ser Phe Leu Leu  
 20 25 30  
 Asn Thr Asn Met Val Phe Gln Pro Ser Val Lys Ser Leu Leu Gln Val  
 35 40 45  
 Leu Gly Ser Val Lys Asn Lys Ile Glu Asn Phe Ala Ala Ser Gln Glu  
 50 55 60  
 Asp Phe Pro Ala Leu Leu Ser Lys Ala Lys Lys Tyr Leu Ile Ala Arg  
 65 70 75 80  
 Gly Lys Leu Asp Trp Ala Glu Gly Pro Ala Ala Gly Pro Ala Pro Arg  
 85 90 95  
 Arg Ser Asp Pro Leu Glu Pro  
 100

<210> 3435  
 <211> 30  
 <212> PRT  
 <213> Homo sapiens

<400> 3435  
 Met Lys Ala Val Gly Phe Val Phe Leu Phe Thr Thr Ile Leu Ser His  
 1 5 10 15  
 Ile Leu Leu Trp Ala Phe Val Val Tyr Phe Lys Lys Thr Val  
 20 25 30

<210> 3436  
 <211> 93  
 <212> PRT  
 <213> Homo sapiens

<400> 3436  
 Met Leu Leu Ile Val Val Ser Val Cys Thr Ala Thr Gly Ala Trp Asn  
 1 5 10 15  
 Trp Leu Ile Asp Pro Glu Thr Gln Lys Val Ser Phe Phe Thr Ser Leu  
 20 25 30  
 Trp Asn His Pro Phe Phe Thr Ile Ser Cys Ile Thr Leu Ile Gly Leu  
 35 40 45  
 Phe Phe Ala Gly Ile His Lys Arg Val Val Ala Pro Ser Ile Ile Ala



50

55

60

Ala Arg Cys Arg Thr Val Leu Ala Glu Tyr Asn Met Ser Cys Asp Asp  
65 70 75 80

Thr Gly Lys Leu Ile Leu Lys Pro Arg Pro His Val Gln  
85 90

&lt;210&gt; 3437

&lt;211&gt; 46

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3437

Met Leu Phe Arg Phe Val Phe Ile Tyr Leu Phe Gly Pro Ala Lys Leu  
1 5 10 15

Pro Ser Leu Gln Arg Pro Trp Thr Arg Ile Gln Pro Val Pro Leu Cys  
20 25 30

Pro Thr Thr Leu His Ser Gln Arg Leu Ala Met Gln Pro Thr  
35 40 45

&lt;210&gt; 3438

&lt;211&gt; 161

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3438

Met Trp Pro Gly Arg Ile Met Thr Val Thr Val Val Leu Leu Cys Cys  
1 5 10 15

Ser Thr Ala Ser Ile Trp Pro Cys Leu Ser His Ser Ala Ser Pro Ser  
20 25 30

Arg Thr Cys Pro Asn Phe Val Gly Arg Ser Thr Arg Ser Cys Val Thr  
35 40 45

Ala Asn Ser Leu Cys Glu Pro Arg Thr Pro Asp Pro Lys Pro Ile Asn  
50 55 60

Gly Lys Gly Asp Met Gly Val Pro Ser Gln Glu Thr Pro Val Pro Phe  
65 70 75 80

Leu Ser Cys Leu Phe Pro Leu Thr Ser Leu Trp Phe Phe Ile Phe Lys  
85 90 95

Cys Phe Asn Phe Cys Ile Phe Phe Ser Leu Arg Glu Tyr Leu Leu Ile  
100 105 110

Ser Asp Val Gln Gly Val Ala Thr Glu Lys Pro Leu Ser Ser Ser Val  
115 120 125

Cys Arg Gly Val Trp Pro Cys Gly Leu Gly Gly Ala Val Ile Leu Pro  
130 135 140

Leu Pro Arg Ala Gly Ser Arg Lys Ser Val Leu Gly Val Val Gly Gly

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145 150 155 160

Gln

<210> 3439  
 <211> 11  
 <212> PRT  
 <213> Homo sapiens

<400> 3439  
 Met Ser Pro Gly Gly Ile Cys Asn Cys Ile Ile  
 1 5 10

<210> 3440  
 <211> 57  
 <212> PRT  
 <213> Homo sapiens

<400> 3440  
 Met Trp Leu Leu Lys Pro Ser Ala His Ser Pro Val His Val Leu Val  
 1 5 10 15  
 Leu Leu Phe Pro Arg Gly Trp Ser Gln Pro Gly Thr His Lys Arg Gln  
 20 25 30  
 Ile Leu Val Asn Ala Ala Ser Leu Pro Gly Gly Cys Leu Leu Pro Trp  
 35 40 45  
 Ile Trp Ser Gly Ala Ala Leu Arg Phe  
 50 55

<210> 3441  
 <211> 68  
 <212> PRT  
 <213> Homo sapiens

<400> 3441  
 Ile Cys Leu Arg Leu Cys Leu Cys Ala Arg His Arg Leu Gly Ala Gly  
 1 5 10 15  
 Ala Leu Arg Leu Arg Arg Leu Trp Arg Gly Ser Glu Thr Arg Gly Pro  
 20 25 30  
 Ala Gly Gly Ser Leu Cys Val Ser Arg His Cys Ser Pro Ser His Pro  
 35 40 45  
 Gly Gly Ser Leu Glu Trp Val Leu Gln Leu Pro Ser Trp Val Arg Ser  
 50 55 60  
 Glu Ala Gly Arg  
 65

<210> 3442  
 <211> 3  
 <212> PRT  
 <213> Homo sapiens

<400> 3442  
 Ala Cys Val  
 1

<210> 3443  
 <211> 27  
 <212> PRT  
 <213> Homo sapiens

<400> 3443  
 Met Asn Val Ile Ile Val Leu Val His Ala Leu Cys Pro Trp Cys Arg  
 1 5 10 15  
 Gly Cys Pro His Trp Gly Pro Leu Val Pro Pro  
 20 25

<210> 3444  
 <211> 34  
 <212> PRT  
 <213> Homo sapiens

<400> 3444  
 Met Gln Val Gln Thr Thr Val Leu Leu Leu Gln Ala Asp Phe Phe Arg  
 1 5 10 15

Val Arg Ala Pro Cys Gly Glu Leu Arg Ala Ala Ser Ile Arg Ala Lys  
 20 25 30

Pro Trp

<210> 3445  
 <211> 50  
 <212> PRT  
 <213> Homo sapiens

<400> 3445  
 Met Ala Gln Ile Thr Trp Ile His Leu Leu Ser Val Val Ile Cys Ser  
 1 5 10 15

Ala Pro Pro Arg Arg Leu His Arg Gln His Ser Ala Val Gln Ala Trp  
 20 25 30

Ala Ala His Arg Glu His Val Gln Pro Ser Leu Thr Ser Ser Gly Arg  
 35 40 45

Met Pro  
 50



<211> 43  
<212> PRT  
<213> Homo sapiens

<400> 3450  
Met Glu Ala Phe Leu His Leu Trp Pro Asp Gly Ser Leu Gly Asp Trp  
1 5 10 15  
Lys Ser Phe Ser Cys His Cys Tyr Trp Gly Trp Ala Gly Pro Thr Cys  
20 25 30  
Gln Glu Pro Arg Pro Gly Pro Lys Glu Ala Val  
35 40

<210> 3451  
<211> 101  
<212> PRT  
<213> Homo sapiens

<400> 3451  
Met Gln Gly Ser Gly Ser Gln Phe Arg Ala Cys Leu Leu Cys Leu Cys  
1 5 10 15  
Phe Ser Cys Pro Cys Ser Pro Gly Gly Pro Arg Trp Asn Ser Arg Gln  
20 25 30  
Gly Gly Arg Arg Phe Pro Lys Thr Cys Arg Ala Ile Ser Gln Asn Leu  
35 40 45  
Val Phe Lys Tyr Lys Thr Phe Cys Pro Val Arg Tyr Met Gln Pro His  
50 55 60  
Arg Ser Ser Leu Cys Leu His Phe Thr Ser Tyr Val Phe Ile Leu Ser  
65 70 75 80  
Thr Trp Gly Ser Leu Arg Thr Tyr Ser Thr Asp Leu Lys Lys Lys Lys  
85 90 95  
Lys Lys Lys Lys Lys  
100

<210> 3452  
<211> 21  
<212> PRT  
<213> Homo sapiens

<400> 3452  
Met Asn Thr Pro Gly Leu Ser Leu Phe Leu Leu Arg Ile Ser Leu Leu  
1 5 10 15  
Leu Met Cys Gly Cys  
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<210> 3453  
<211> 27

<212> PRT  
<213> Homo sapiens

<400> 3453  
Met Thr Ile Ala Ile Val Ile Leu Ile Ile Phe Pro Thr Val Lys Asn  
1 5 10 15  
Leu Ala Leu Ser Ser Glu Ile Val Met Ala Leu  
20 25

<210> 3454  
<211> 37  
<212> PRT  
<213> Homo sapiens

<400> 3454  
Met Phe Ser Arg Leu Tyr Lys Gln Arg Leu Leu Leu Leu Leu Trp Tyr  
1 5 10 15  
Ser His Phe Gly Gly Gly Gly Ser Arg Leu Glu Arg Ile Ser Phe Ala  
20 25 30  
Leu Lys Ser Arg Met  
35

<210> 3455  
<211> 47  
<212> PRT  
<213> Homo sapiens

<400> 3455  
Met Met Val Pro Gly Gly Pro Ala Pro Leu Leu Leu Cys Phe Leu Phe  
1 5 10 15  
Leu Leu Phe Trp Tyr Leu Gly Glu Leu Ile Thr Lys Ser Leu Leu Arg  
20 25 30  
Val Met Glu Ser Tyr Pro Ser Ile Pro Gln Ala Val Phe Gln Arg  
35 40 45

<210> 3456  
<211> 47  
<212> PRT  
<213> Homo sapiens

<400> 3456  
Met Phe Lys Asp Ala Gly Leu Phe Leu Leu Trp Gly Pro Phe Pro Gly  
1 5 10 15  
Val Pro Val Ser Pro Ser Pro Gly Gly Ser Ala Pro Thr Arg Val Gly  
20 25 30  
Gly Ile Ser Ser Gln Arg Leu Ala Arg Pro His Leu Gly Glu Ala  
35 40 45

<210> 3457  
 <211> 26  
 <212> PRT  
 <213> Homo sapiens

<400> 3457  
 Met Thr Val Val Leu Leu Leu Leu His Gly Ile Thr Val Tyr Tyr Val  
           1                  5                  10                  15  
 Val Gly Lys Tyr Ser Leu Leu Asn Pro Thr  
                   20                  25

<210> 3458  
 <211> 26  
 <212> PRT  
 <213> Homo sapiens

<400> 3458  
 Met Thr Val Val Leu Leu Leu Leu His Gly Ile Thr Val Tyr Tyr Val  
           1                  5                  10                  15  
 Val Gly Lys Tyr Ser Leu Leu Asn Pro Thr  
                   20                  25

<210> 3459  
 <211> 26  
 <212> PRT  
 <213> Homo sapiens

<400> 3459  
 Met Thr Val Val Leu Leu Leu Leu His Gly Ile Thr Val Tyr Tyr Val  
           1                  5                  10                  15  
 Val Gly Lys Tyr Ser Leu Leu Asn Pro Thr  
                   20                  25

<210> 3460  
 <211> 26  
 <212> PRT  
 <213> Homo sapiens

<400> 3460  
 Met Thr Val Val Leu Leu Leu Leu His Gly Ile Thr Val Tyr Tyr Val  
           1                  5                  10                  15  
 Val Gly Lys Tyr Ser Leu Leu Asn Pro Thr  
                   20                  25

<210> 3461  
 <211> 37  
 <212> PRT







<210> 3468  
 <211> 74  
 <212> PRT  
 <213> Homo sapiens

<400> 3468  
 Met Asn Lys Thr Phe His Pro Leu Lys His Phe Pro Val Leu Arg Phe  
 1 5 10 15  
 Leu Phe Val Phe Val Val Ser Ser Pro Cys Tyr Pro Phe Cys Pro Phe  
 20 25 30  
 Ser Leu Thr Met Val Ile Trp Ser Leu Gly Ser Tyr Gln Ser Pro Arg  
 35 40 45  
 Asp Ile Leu Gln Ser Leu Ser Pro Phe Trp Val Asp Phe Ile Leu Phe  
 50 55 60  
 Tyr Phe Val Phe Phe Lys Lys Ile Thr Phe  
 65 70

<210> 3469  
 <211> 24  
 <212> PRT  
 <213> Homo sapiens

<400> 3469  
 Gly Thr Arg Ile Trp Gly Val Val Cys Leu Phe Leu Glu His Arg Val  
 1 5 10 15  
 Ala Trp Pro Cys Trp Asn Asp Lys  
 20

<210> 3470  
 <211> 38  
 <212> PRT  
 <213> Homo sapiens

<400> 3470  
 Met Lys Ile Lys Asn Val Ala Ala Val Ile Cys Leu Val Ile Pro Leu  
 1 5 10 15  
 Leu Leu Phe Phe Ser Leu Lys Lys Gln Lys Arg Gly Leu Gly Ile Phe  
 20 25 30  
 Ile Leu Met Gln Lys Phe  
 35

<210> 3471  
 <211> 59  
 <212> PRT  
 <213> Homo sapiens

<400> 3471  
 Met Leu Trp Ser Leu Ala Ser Tyr Ile Val Asn Leu Ala Val Lys Val



Lys Cys Glu  
35

<210> 3475  
<211> 36  
<212> PRT  
<213> Homo sapiens

<400> 3475  
Met Ser Gln Thr Trp Pro His Pro Phe Ile Cys Tyr Cys Leu Ser Trp  
1 5 10 15  
Phe Cys Thr Thr Thr Ala Glu Leu Asn Arg Cys Ser Arg Ser Phe Thr  
20 25 30  
Glu Lys Val Phe  
35

<210> 3476  
<211> 66  
<212> PRT  
<213> Homo sapiens

<400> 3476  
Met Leu Lys Cys Gly Phe Met Lys Tyr Val Val Phe Leu Ser Val Leu  
1 5 10 15  
Val Ser Phe Leu Glu Met Cys Lys Ser Glu Lys His Thr Asn His Lys  
20 25 30  
Ser Gly Ile His His Lys Pro Lys Lys Lys Lys Lys Lys Lys Lys  
35 40 45  
Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys  
50 55 60  
Lys Lys  
65

<210> 3477  
<211> 24  
<212> PRT  
<213> Homo sapiens

<400> 3477  
Met Asp Phe Thr Val Glu Gly Ser Ser Ile His Leu Trp Leu Leu Phe  
1 5 10 15  
Asn Leu Val Leu Leu Asp Phe Val  
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<210> 3478

<211> 37  
 <212> PRT  
 <213> Homo sapiens

<400> 3478  
 Met Ala Gln Trp His Ser Gly Ser Ser Phe Leu Phe Phe Ile Leu Gly  
 1 5 10 15  
 Trp Asn Leu Lys Val Val Cys Ser Ser Gly Phe Gly Leu Ile Phe Glu  
 20 25 30  
 Ala Thr Leu Pro Ser  
 35

<210> 3479  
 <211> 35  
 <212> PRT  
 <213> Homo sapiens

<400> 3479  
 Met Leu Phe Phe Asn Leu Phe Cys Tyr Leu Gly Ser Val Leu Ile Ser  
 1 5 10 15  
 Gly Gln Ile Phe Thr Val Leu Ser Gln Asn Ile Thr Lys Arg Arg Val  
 20 25 30  
 Thr Thr Thr  
 35

<210> 3480  
 <211> 30  
 <212> PRT  
 <213> Homo sapiens

<400> 3480  
 Phe Phe Phe Phe Ser Ala Phe Gln His Leu Phe His Gly Met Ser Ala  
 1 5 10 15  
 Gln His Phe His Glu Leu Pro Gln Gly Tyr Ile Ser Thr Lys  
 20 25 30

<210> 3481  
 <211> 111  
 <212> PRT  
 <213> Homo sapiens

<400> 3481  
 Trp Leu Leu Phe Arg Ser Leu Gln Arg Ala Pro Ser Trp Ser Phe Pro  
 1 5 10 15  
 Ser Asn Leu Gly Thr Lys Thr Ala Asp Leu Lys Gly Ala Ser Glu Leu  
 20 25 30  
 Pro Thr Pro Cys His Glu Cys Arg Glu Asp Asn Asp Gly Glu Gly His  
 35 40 45



Gly Gly Gly Asn Asn Gly Leu Arg Arg Val Asp Pro Gln Gly Leu Xaa  
 100 105 110

Asn

<210> 3484  
 <211> 172  
 <212> PRT  
 <213> Homo sapiens

<400> 3484  
 Pro Val Cys Gly Gly Phe Gly Val Leu Trp Ala Trp Leu Cys Thr Gly  
 1 5 10 15  
 Arg Trp Thr Leu Leu Trp Ser Ser Ser Phe Pro Tyr Pro Gly Ser Asp  
 20 25 30  
 Val Gly Arg Leu Gly Gly Pro Val Ser Ser Pro Pro Phe Ala Leu Ser  
 35 40 45  
 Cys Pro Phe Pro Leu Ser Pro Gly Arg Cys Leu Ala Arg Leu Arg Pro  
 50 55 60  
 Pro Ser Arg Gln Pro Gly Cys Glu Leu Ser Leu Ser Leu Phe Pro Leu  
 65 70 75 80  
 Val Gly Lys Trp Pro Phe Pro Gln His Leu Leu Pro Gly Pro Arg Gly  
 85 90 95  
 Thr His Leu Phe Trp Ser Ser Ala Trp Pro Ser Val Ser Leu Gly Lys  
 100 105 110  
 Gly Lys Glu Gly Trp Thr Ala Leu Ile Arg Ala Gly Ser Val Cys Ser  
 115 120 125  
 Ser Gly Gln Pro Glu Cys Gln Arg Cys Thr Gly Met Trp Cys Val Ala  
 130 135 140  
 Pro Gly Pro Arg His Leu Cys Phe Gly Gly Phe Leu Pro Cys Leu His  
 145 150 155 160  
 Thr Cys Gln Gly Arg Gly Asp Ser Lys Val Gly Gly  
 165 170

<210> 3485  
 <211> 172  
 <212> PRT  
 <213> Homo sapiens

<400> 3485  
 Pro Val Cys Gly Gly Phe Gly Val Leu Trp Ala Trp Leu Cys Thr Gly  
 1 5 10 15  
 Arg Trp Thr Leu Leu Trp Ser Ser Ser Phe Pro Tyr Pro Gly Ser Asp  
 20 25 30





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20

25

30

Lys Asn Trp Ser Leu Phe Ala Val Asn Phe Phe Val Gly Ala Ala Gly  
35 40 45

Ala Ser Gln Leu Phe Arg Ile Trp Arg Tyr Asn Gln Glu Leu Lys Ala  
50 55 60

Lys Ala His Lys  
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<210> 3488  
<211> 23  
<212> PRT  
<213> Homo sapiens

<400> 3488  
Lys Ser Phe Cys Leu Asp Leu Phe Ser Cys Ser Ile Phe Cys Lys Met  
1 5 10 15

Tyr Tyr Ile Val Ser Leu Leu  
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<210> 3489  
<211> 65  
<212> PRT  
<213> Homo sapiens

<400> 3489  
Met Met Phe Ile Thr Leu Pro Leu Pro Leu Gln Ser Tyr Pro Ala Leu  
1 5 10 15

Leu Ile Leu Pro Gln Gln Thr Asp Ala Pro Gly Asn Asn Val Gly Val  
20 25 30

Ser Thr Lys Lys Phe Arg Arg Arg Lys Tyr Ile His Val Ile Gln Asn  
35 40 45

Cys Tyr Leu Tyr His Lys Ile Val Lys Ser Leu Cys Ser Asp Phe Leu  
50 55 60

Leu  
65

<210> 3490  
<211> 19  
<212> PRT  
<213> Homo sapiens

<400> 3490  
Met Asp Pro Arg Pro Leu Gln Ala Pro Ile Ala Ile Gly Ser Leu Lys  
1 5 10 15

Leu Ser Gly

<210> 3491  
 <211> 34  
 <212> PRT  
 <213> Homo sapiens

<400> 3491  
 Met Phe Ser Phe Ile Ser Val Leu Phe Cys Leu Phe Leu Leu Val Ser  
 1 5 10 15

Leu Arg Thr Ile His Leu Leu Phe Leu His Trp Leu His Leu Ser Cys  
 20 25 30

Asp Ile

<210> 3492  
 <211> 35  
 <212> PRT  
 <213> Homo sapiens

<400> 3492  
 Met Phe Ser Phe Ile Ser Val Leu Phe Cys Leu Phe Leu Leu Val Ser  
 1 5 10 15

Phe Glu Asn Asn Thr Pro Ser Ile Pro Ser Phe Gly Tyr Thr Phe Pro  
 20 25 30

Cys Asp Ile  
 35

<210> 3493  
 <211> 35  
 <212> PRT  
 <213> Homo sapiens

<400> 3493  
 Met Phe Ser Phe Ile Ser Val Leu Phe Cys Leu Phe Leu Leu Val Ser  
 1 5 10 15

Phe Glu Asn Asn Thr Pro Ser Ile Pro Ser Phe Gly Tyr Thr Phe Pro  
 20 25 30

Cys Asp Ile  
 35

<210> 3494  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<400> 3494  
 Met Ala His Trp His Val Phe Tyr Val Phe Ser Cys His Ser

1

5

10

<210> 3495  
 <211> 32  
 <212> PRT  
 <213> Homo sapiens

<400> 3495  
 Met Trp Thr Ser Ser Ser Arg Gly Trp Gly Ser Phe Leu Asn Val Cys  
           1                  5                  10                  15  
 Ser Leu Leu Pro Ala Trp Pro Ser Met Gln Thr Leu Trp Leu Thr Ser  
                   20                  25                  30

<210> 3496  
 <211> 47  
 <212> PRT  
 <213> Homo sapiens

<400> 3496  
 Gly Leu Ser Arg Pro Thr Ser Ser Ser Pro Trp Pro Pro Gly Ala Met  
           1                  5                  10                  15  
 Leu Leu Pro Leu Gly Ser Leu Cys Gly Pro Ser Ser Cys Leu Pro Val  
                   20                  25                  30  
 Ala Ser Val Asp Gln Ala Arg Ala Ser Gly Gln Pro Phe Gln Ala  
           35                  40                  45

<210> 3497  
 <211> 19  
 <212> PRT  
 <213> Homo sapiens

<400> 3497  
 Met Gly Ala Asn Ile Leu Leu Ser Ile Ala Thr Ile Thr Ile Gly Trp  
           1                  5                  10                  15  
 Leu Trp Ile

<210> 3498  
 <211> 31  
 <212> PRT  
 <213> Homo sapiens

<400> 3498  
 Met Lys Phe Thr Leu Met Leu Val Met Ser Leu Glu Leu Ser Leu Arg  
           1                  5                  10                  15

Lys Val Leu Ser Ser Val Tyr Pro Leu Gly Lys Tyr Asn His Glu  
 20 25 30

<210> 3499  
 <211> 31  
 <212> PRT  
 <213> Homo sapiens

<400> 3499  
 Met Asp Leu Ser Ser Pro Thr Ile Leu Ile Ile Phe Ser Gly Cys Val  
 1 5 10 15

Ser Ala Phe Leu Cys His Ile Lys His Cys Ile Arg Asn Gln Lys  
 20 25 30

<210> 3500  
 <211> 39  
 <212> PRT  
 <213> Homo sapiens

<400> 3500  
 Met Ile Met Met Arg Arg Arg Lys Ile Leu Ile Phe Leu Lys Ile Leu  
 1 5 10 15

Ile Leu Met Lys Met Lys Gly Asp Cys Leu Glu Val Lys Asn Leu Ser  
 20 25 30

Gln Val Lys Val Pro Glu Ile  
 35

<210> 3501  
 <211> 10  
 <212> PRT  
 <213> Homo sapiens

<400> 3501  
 Met Ser Cys Ser Phe Leu Glu Phe Ser Ile  
 1 5 10

<210> 3502  
 <211> 17  
 <212> PRT  
 <213> Homo sapiens

<400> 3502  
 Thr Ile Leu Phe Ser Leu Leu Leu Gly Phe Ser Ile Thr Lys Lys Gln  
 1 5 10 15

Ile

<210> 3503  
 <211> 17  
 <212> PRT  
 <213> Homo sapiens

<400> 3503  
 Thr Ile Leu Phe Ser Leu Leu Leu Gly Phe Ser Ile Thr Lys Lys Gln  
 1 5 10 15  
 Ile

<210> 3504  
 <211> 29  
 <212> PRT  
 <213> Homo sapiens

<400> 3504  
 Met Ala Phe Cys Phe Cys Phe Phe Leu His Pro Ser Glu Thr Ala Pro  
 1 5 10 15  
 Leu Cys Gly Arg Gln Gly Met Gly Phe Ser Pro Gly His  
 20 25

<210> 3505  
 <211> 41  
 <212> PRT  
 <213> Homo sapiens

<400> 3505  
 Met Ala Leu Thr Ser Val Leu Leu Phe Ile Leu Leu Phe Phe Gly Val  
 1 5 10 15  
 Ile Leu Met Cys Leu Leu Arg Ala Phe Tyr Leu Pro Asp Phe Ser Trp  
 20 25 30  
 Leu Thr Phe Gly Leu Tyr Phe Ala Pro  
 35 40

<210> 3506  
 <211> 15  
 <212> PRT  
 <213> Homo sapiens

<400> 3506  
 Met Gln Ser Leu Phe Tyr Ser Leu Leu Leu Ile Arg Val Ser Gly  
 1 5 10 15

<210> 3507  
 <211> 35  
 <212> PRT  
 <213> Homo sapiens



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1	5	10	15
Arg	Ile	Leu	Met
20	Asn	Ala	Phe
	Cys	Ile	Val
	Val	Val	Phe
	His	Thr	Ser
		30	

<210> 3512  
 <211> 38  
 <212> PRT  
 <213> Homo sapiens

<400> 3512
Met Trp Tyr Leu Thr Phe Ser Lys His Phe Leu Leu Leu Gly Phe Pro
1 5 10 15
Val Pro Phe Ser Asp Gly Glu Leu Thr Val Pro Ile Glu Ile Phe Ile
20 25 30
Phe Ile Thr Ile Leu Thr
35

<210> 3513  
 <211> 33  
 <212> PRT  
 <213> Homo sapiens

<400> 3513
Met Arg Gln Met Ser Leu Asn Trp Lys Asp Ile Leu Thr Leu Leu Cys
1 5 10 15
Val Leu Thr Ala Cys Phe Trp Thr Ser Thr Glu Pro Ala Leu Leu Met
20 25 30
Gln

<210> 3514  
 <211> 80  
 <212> PRT  
 <213> Homo sapiens

<400> 3514
Met Trp Gly Arg Arg Gln Cys Ala Leu Trp Met Val Phe Thr Ser Thr
1 5 10 15
Ala His Thr Thr Leu Gly Ser Arg Pro Ser Thr Lys Gln Glu Ser Ala
20 25 30
Arg Thr Ala Arg Pro Trp Ser Ser Lys Arg Leu Arg Val Arg Pro Phe
35 40 45
Ser Ser Ile Pro Gln Ser Glu Asn Cys Val Ala Ser Lys Val Ala Gly
50 55 60
Lys Pro Gly Gly Asn Pro Thr Thr Ala His Ile Pro Glu Val Phe Pro
65 70 75 80





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1	5	10	15
Gly Met Pro Ser Pro Ala Pro Pro Ala Leu Ser Ala Trp Gln Val His	20	25	30
Leu Ser Arg Ser Pro Gln Arg Pro Pro Pro Pro Gly Arg Gln Pro Leu	35	40	45
Cys Pro Ser Pro Pro Gly Tyr Leu Cys Thr Leu Ser Met Leu Leu Leu	50	55	60
Trp His Leu Ser His Cys Ile Leu Leu Val Tyr Met Phe Val Ser Pro	65	70	75
80			
Ser Arg Leu			

<210> 3519  
 <211> 98  
 <212> PRT  
 <213> Homo sapiens

<400> 3519
Met Thr Arg Arg Leu Arg Arg Leu Ser Gly Cys Arg Cys Thr Pro Gly
1 5 10 15
Leu Gly Ala Ser Leu Pro Gly Pro Gly Gly Ser Trp Val Ala Trp Leu
20 25 30
Gln Gly Lys Thr Gly Ala Arg Thr His Val Ser Pro Ala Gly Val Gly
35 40 45
Gly Ala Ala Ala Leu Gly Ser Gly Val Arg Pro Trp Gly Met Phe Pro
50 55 60
Met Val Gly Ser Leu Ala Arg Pro Glu Lys Thr Cys Ser Arg Ala Ser
65 70 75 80
Ile Arg Cys Pro Leu Glu Glu Ala Glu Leu Phe Glu Gly Cys Cys Lys
85 90 95
Val Arg

<210> 3520  
 <211> 36  
 <212> PRT  
 <213> Homo sapiens

<400> 3520
Met Leu Arg Val Asp Leu Phe Thr Phe Ser Phe Asn Phe Thr Leu Thr
1 5 10 15
Glu Phe Phe Phe Pro Asn Gln Thr Asn Ser Leu Ala Ser Val Ala Phe
20 25 30
Ser Ser Leu Arg

<210> 3521  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<400> 3521  
 Asn Gly Ile Ala Ala Leu Ile Trp Gln Leu Cys Leu Ala Phe  
           1                  5                  10

<210> 3522  
 <211> 24  
 <212> PRT  
 <213> Homo sapiens

<400> 3522  
 Met Arg Pro Ile Gly Pro Ser Glu Pro Phe Cys Gly Cys Thr Trp Gly  
           1                  5                  10                  15  
 Pro Leu Trp Thr Met Gly Cys Gly  
                           20

<210> 3523  
 <211> 49  
 <212> PRT  
 <213> Homo sapiens

<400> 3523  
 Met Pro Trp Gly Asn Cys Tyr Val Ile Ser His Leu Gln Gly Ser Ile  
           1                  5                  10                  15  
 Leu Ile Gln Phe Leu Leu Asn Ile Gln Leu Gly Cys Arg Asp Ile Asp  
                   20                  25                  30  
 Ile Ser Phe Glu Leu Ser Glu Phe Phe Ile Phe Ile Ser Lys Asn Leu  
           35                  40                  45  
 Ile

<210> 3524  
 <211> 48  
 <212> PRT  
 <213> Homo sapiens

<400> 3524  
 Met Ser Ser Ile Ser Phe Leu Leu His Phe Leu His Val Leu Pro Leu  
           1                  5                  10                  15  
 Trp Ala Pro Leu Val Ser Leu Ser Pro Leu Leu Pro Val Pro His Leu  
                   20                  25                  30

Phe Ala Val Leu Val Glu Ala Glu Val Trp Ala Ala Lys Ile Trp Met  
 35 40 45

<210> 3525  
 <211> 41  
 <212> PRT  
 <213> Homo sapiens

<400> 3525  
 Met Cys Arg Ile His Leu Asn Ile Cys Lys Lys Leu Gln Gly Glu Glu  
 1 5 10 15  
 Leu Phe Phe Val Phe Leu Phe Leu Phe Val Leu Phe Phe Cys His Phe  
 20 25 30  
 Thr Asn Trp Pro His Asp Arg Leu Arg  
 35 40

<210> 3526  
 <211> 32  
 <212> PRT  
 <213> Homo sapiens

<400> 3526  
 Met Gln Leu Cys Ser Gly Val Leu Asn Pro Gly Leu Ile Ser Asn Leu  
 1 5 10 15  
 Phe Ser Ser His Ser Ser Gln Leu Phe Cys Ala Val His Leu Gly Ser  
 20 25 30

<210> 3527  
 <211> 36  
 <212> PRT  
 <213> Homo sapiens

<400> 3527  
 Met His Gly Leu Val Cys Phe Leu Gly Phe Ser Val Ser Leu Ser Cys  
 1 5 10 15  
 Phe Ala Phe Gln Arg Ser Cys Ser Tyr Gln Gly Ile Thr Gln Pro Leu  
 20 25 30  
 Lys Leu Ser Ser  
 35

<210> 3528  
 <211> 56

<212> PRT  
<213> Homo sapiens

<400> 3528

Met Arg Ile Ala Val Leu Leu Met Thr Tyr His Ser Ser Cys Met Gly  
1 5 10 15  
Lys Gln Ser Arg Lys Gln Cys Pro Lys Trp Lys Lys Asp Thr His Thr  
20 25 30  
Glu Gln Asn Ser Ser Trp Ser Cys Ser Trp Ser Cys Gln Thr Leu Pro  
35 40 45  
Asp Ala Leu Ser Lys Val Lys Ile  
50 55

<210> 3529

<211> 23

<212> PRT

<213> Homo sapiens

<400> 3529

Met Gly Leu Phe Leu Leu Phe Leu Leu Arg Val Gly Val Gly Cys Val  
1 5 10 15  
Ile Cys Lys Tyr Phe Cys Ala  
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<210> 3530

<211> 136

<212> PRT

<213> Homo sapiens

<400> 3530

Met Ile Gln Asn Ile Leu Phe Leu Ser Ala Phe Phe Trp Gly Glu Gly  
1 5 10 15  
Pro Ile Ile Pro Thr Leu Pro His Thr Val Lys Ser Cys Pro Leu Trp  
20 25 30  
Glu Pro Gly Ser Phe Pro Gln Asn Val Ser Arg Ser Leu Glu Asp Asp  
35 40 45  
Pro Ser Ser Thr Pro His Ala Cys Ser Met Gly Gln Cys Pro Gln Leu  
50 55 60  
Pro Ala Phe Pro Leu Thr Met Glu Pro Gly Thr Pro Gly Lys Pro Gly  
65 70 75 80  
Ala Pro Arg Arg Pro Arg Ser Ser Arg Val Ala Ser Leu Ser Cys Arg  
85 90 95  
Ala Arg Trp Pro Asn Arg Pro His Gly Thr Thr Leu Ala Arg Ser Thr  
100 105 110  
Arg His Ala Gly Ser Pro Leu Leu Ser Cys Leu Ala Leu Leu Ser Cys  
115 120 125

Ser Ser Trp Ile Thr Leu Gln Arg  
130 135

<210> 3531  
<211> 33  
<212> PRT  
<213> Homo sapiens

<400> 3531  
Met Pro Leu Ser Tyr Ser Phe Cys Val Leu Phe Ile Val Trp Cys Ile  
1 5 10 15  
His Ser Trp Lys Ile Cys Asn Ser Cys Val Ser Arg Ile Cys Val Phe  
20 25 30

Thr

<210> 3532  
<211> 33  
<212> PRT  
<213> Homo sapiens

<400> 3532  
Met Pro Leu Ser Tyr Ser Phe Cys Val Leu Phe Ile Val Trp Cys Ile  
1 5 10 15  
His Ser Trp Lys Ile Cys Asn Ser Cys Val Ser Arg Ile Cys Val Phe  
20 25 30

Thr

<210> 3533  
<211> 20  
<212> PRT  
<213> Homo sapiens

<400> 3533  
Met Leu Cys Val Cys Leu Ser Thr Ala Ile Ser Ala Thr Phe Ser Leu  
1 5 10 15

Met His Val Glu  
20

<210> 3534  
<211> 8  
<212> PRT  
<213> Homo sapiens

<400> 3534  
Met Ser Ala Trp Cys Asn Phe Tyr

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5

<210> 3535  
 <211> 35  
 <212> PRT  
 <213> Homo sapiens

<400> 3535  
 Met Cys Ser Gly Asn Gly Ala Ala Cys Ile Cys Arg Ala Gln Val Leu  
           1                  5                  10                  15

Leu Ala Leu Cys Cys Gly Ile Cys Thr Ser Pro Ala Ile Cys Cys Pro  
                   20                  25                  30

Trp Ala Thr  
           35

<210> 3536  
 <211> 13  
 <212> PRT  
 <213> Homo sapiens

<400> 3536  
 Met Gly Ser Cys Leu Leu Pro Asn Val Tyr Phe Ser Cys  
           1                  5                  10

<210> 3537  
 <211> 32  
 <212> PRT  
 <213> Homo sapiens

<400> 3537  
 Met Met Phe Leu Ile Ile Met Val Ile Thr Thr Val Leu Phe Ser Asp  
           1                  5                  10                  15

Glu Ser Val Arg Ser Pro Gly Thr Cys Glu Tyr Val Val Phe Asp Leu  
                   20                  25                  30

<210> 3538  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<400> 3538  
 Phe Phe Thr Phe Pro Ser Ala Ala His Thr Ala Ile Gln Gln  
           1                  5                  10

<210> 3539

<211> 31  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (23)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 3539  
 Met Cys Met Cys Val His Val Cys Ala Cys Met Cys Val Pro Met Cys  
 1 5 10 15  
 Met Cys Ala Cys Arg Cys Xaa Cys Val Cys Leu Cys Val Cys Thr  
 20 25 30

<210> 3540  
 <211> 187  
 <212> PRT  
 <213> Homo sapiens

<400> 3540  
 Met Val Asp Ile Leu Arg Ala Leu Glu Lys Leu Arg Lys Leu Arg Lys  
 1 5 10 15  
 Glu Ala Ala Ala Arg Lys Gly Val Cys Pro Pro Ala Ser Ala Asp Glu  
 20 25 30  
 Thr Phe Thr His His Leu Gln Arg Leu Arg Lys Leu Ile Lys Lys Arg  
 35 40 45  
 Ser Glu Leu Tyr Glu Ala Glu Glu Arg Ala Leu Arg Val Met Leu Glu  
 50 55 60  
 Gly Glu Gln Glu Glu Glu Arg Lys Arg Glu Leu Glu Lys Lys Gln Arg  
 65 70 75 80  
 Lys Glu Lys Glu Lys Ile Leu Leu Gln Lys Arg Glu Ile Glu Ser Lys  
 85 90 95  
 Leu Phe Gly Asp Pro Asp Glu Phe Pro Leu Ala His Leu Leu Glu Pro  
 100 105 110  
 Phe Arg Gln Tyr Tyr Leu Gln Ala Glu His Ser Leu Pro Ala Leu Ile  
 115 120 125  
 Gln Ile Arg His Asp Trp Asp Gln Tyr Leu Val His Pro Ile Ile Pro  
 130 135 140  
 Lys Ala Thr Ser Phe Pro Lys Asp Gly Ser Phe Pro Arg Ser Pro Ala  
 145 150 155 160  
 Thr Thr Ser Gly Gln Leu Leu Leu Ser Cys Ile Ser Lys Asp Ala Pro  
 165 170 175  
 Gly Val Trp Ser Ser Gln Arg Ser Phe Gln Leu  
 180 185

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<210> 3541  
 <211> 25  
 <212> PRT  
 <213> Homo sapiens

<400> 3541  
 Met Glu Ser Leu Cys Cys Arg Val His Thr Ser Arg Ile Cys Leu Met  
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 Asn Gly Val Cys Leu Leu Tyr Trp Ser  
                   20                  25

<210> 3542  
 <211> 21  
 <212> PRT  
 <213> Homo sapiens

<400> 3542  
 Met Lys Asp Leu Leu Ser Gln Ala His Glu Thr Ser Ser Glu Glu Ala  
           1                  5                  10                  15  
 Val Leu Phe Leu Tyr  
                   20

<210> 3543  
 <211> 27  
 <212> PRT  
 <213> Homo sapiens

<400> 3543  
 Leu Met Leu Thr Ala Arg Phe Val Gln Cys Thr Val Val Asp Pro Ser  
           1                  5                  10                  15  
 Ala Gly Phe Leu Ile Trp Ile Gln Ala Arg Ala  
                   20                  25

<210> 3544  
 <211> 6  
 <212> PRT  
 <213> Homo sapiens

<400> 3544  
 Leu Tyr Leu Cys Gly Ser  
           1                  5

<210> 3545  
 <211> 93  
 <212> PRT  
 <213> Homo sapiens

<400> 3545  
 Gln Asn Thr Leu Thr Arg Phe Met Arg Leu Pro Leu Ile Ser Val Ala



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1                    5                    10                    15  
Leu Val Gln Gly Trp Ala Leu Gly Gly Gly Ala Glu Phe Thr Thr Ala  
                  20                    25                    30  
Cys Asp Phe Arg Leu Met Thr Pro Glu Ser Lys Ile Arg Phe Val His  
                  35                    40                    45  
Lys Glu Met Gly Ile Ile Pro Ser Trp Gly Gly Thr Thr Arg Leu Val  
                  50                    55                    60  
Glu Ile Ile Gly Ser Arg Gln Ala Leu Lys Val Leu Ser Gly Ala Leu  
                  65                    70                    75                    80  
Lys Leu Gly Phe Lys Lys Cys Ser Lys His Arg Asn Gly  
                  85                    90

<210> 3546  
<211> 12  
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<213> Homo sapiens

<400> 3546  
Met Phe Leu Val Val Val Val Val Leu Ala Phe Asn  
1                    5                    10

<210> 3547  
<211> 13  
<212> PRT  
<213> Homo sapiens

<400> 3547  
Ile Tyr Leu Phe Gln Phe Thr Leu Ser Phe Cys Cys Phe  
1                    5                    10

<210> 3548  
<211> 39  
<212> PRT  
<213> Homo sapiens

<400> 3548  
Pro Phe Ser Leu Pro Pro Phe Ser Asn Cys Trp Tyr Val Ser Ile Val  
1                    5                    10                    15

Pro Ser Pro His Met Gln Glu Ala Ala Arg Ile Leu Glu Ile Ala Ala  
                  20                    25                    30

Trp Ser Ser Glu Thr Leu Pro  
                  35

<210> 3549  
<211> 62  
<212> PRT

<213> Homo sapiens

<400> 3549

Met Thr Ile Leu Gln Val Val Ala Leu Pro Leu Tyr Leu Tyr Ile Ile  
1 5 10 15

Leu Thr Trp His Leu Trp Pro Phe Leu Cys Ser Tyr Val Ser Val Phe  
20 25 30

Pro Gly Arg Val Tyr Ala Leu Glu Cys Gln Glu Leu Val Ser Leu Val  
35 40 45

Phe Phe Ile Tyr Leu Ala Tyr Lys Ile Leu Leu Arg Ile Trp  
50 55 60

<210> 3550

<211> 30

<212> PRT

<213> Homo sapiens

<400> 3550

Met Glu Phe Phe Glu Thr Leu Gly Leu Asn Asp Ser Ser Glu Leu Ser  
1 5 10 15

Leu Leu Phe Asp Thr Lys Glu Trp His Val Trp Gly Phe Leu  
20 25 30

<210> 3551

<211> 24

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 3551

Met Ala Cys Lys Leu Lys Leu Phe Thr Ile Trp Cys Phe Thr Gly Lys  
1 5 10 15

Ala Leu Pro Thr Ser Xaa Phe Asn  
20

<210> 3552

<211> 45

<212> PRT

<213> Homo sapiens

<400> 3552

Met Leu Trp Glu Val Cys Ser Phe Ala Phe Cys Asn Ile Ala Cys Cys  
1 5 10 15

Cys Ser Leu Phe Gly Phe Val Pro Pro Leu Ser Ala Val Thr Leu Thr  
20 25 30

Ala Lys Ser Ala Thr Ser Leu Leu Arg Pro Ala Arg Pro  
 35 40 45

<210> 3553  
 <211> 136  
 <212> PRT  
 <213> Homo sapiens

<400> 3553  
 Met Ser Leu Ser Lys Ser Glu Arg Val Leu Cys Leu Trp Leu Ala Leu  
 1 5 10 15  
 Pro Thr Thr Arg Pro Ala Leu Cys Arg His Val Ser Leu Cys Pro Thr  
 20 25 30  
 Pro Lys Gly Glu Ile Gln His Pro Thr Ala Gln Gln Ala Ala Cys Gln  
 35 40 45  
 Gln His Pro Pro Leu Gly Ser Pro Arg Cys Ser Pro Glu Pro His Arg  
 50 55 60  
 Ala Leu Ile Thr Phe Ser Ala Ser Gly Asn Gln Ala Leu Ala Ser Leu  
 65 70 75 80  
 Ser Pro Pro Pro Leu Leu Ser Pro Phe Pro Pro Asp Pro Gln Asp Leu  
 85 90 95  
 Phe Pro Trp Leu Gln Tyr Ser Leu Ala Tyr Arg Ser Pro Lys Ala Val  
 100 105 110  
 Leu Gly Met Pro Cys Pro Ser Pro Ser Asn Arg Pro Arg Ala Glu Phe  
 115 120 125  
 Asp Ile Lys Leu Ile Asp Thr Val  
 130 135

<210> 3554  
 <211> 19  
 <212> PRT  
 <213> Homo sapiens

<400> 3554  
 Met Pro Leu Leu Phe Met Ser Leu Thr Leu Leu Trp Gln Ser Gly Cys  
 1 5 10 15  
 Ser Arg Lys

<210> 3555  
 <211> 26  
 <212> PRT  
 <213> Homo sapiens

<400> 3555

Ala Val Pro His Pro Asn Leu Ile Trp Asn Cys Ser Ser His Asn Ser  
 1 5 10 15

His Thr Ser Trp Asp Gly Pro Gly Glu Arg  
 20 25

<210> 3556  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<400> 3556  
 Met Arg Ser Leu Pro Phe Tyr Phe Leu Leu Cys Cys Phe Leu  
 1 5 10

<210> 3557  
 <211> 4  
 <212> PRT  
 <213> Homo sapiens

<400> 3557  
 Met Arg Lys Ala  
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<210> 3558  
 <211> 8  
 <212> PRT  
 <213> Homo sapiens

<400> 3558  
 Met Cys Ala Ala Glu Pro Tyr Phe  
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<210> 3559  
 <211> 36  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (17)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (34)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 3559  
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Xaa Lys Lys Lys Lys Lys Ser Glu Arg His Glu Arg Cys Lys Glu Ala

1234567891011121314151617181920212223242526272829303132333435363738394041424344454647484950515253545556575859606162636465666768697071727374757677787980818283848586878889909192939495969798990001020304050607080910111213141516171819202122232425262728293031323334353637383940414243444546474849505152535455565758596061626364656667686970717273747576777879808182838485868788899091929394959697989900

20

25

30

Gln Xaa Trp Leu  
35

<210> 3560  
<211> 21  
<212> PRT  
<213> Homo sapiens

<400> 3560  
Met Ser Phe His Met Ile Val Ile Leu Leu Gln Ser Ile Thr Lys Asp  
1 5 10 15  
Ser Thr Ile Leu Val  
20

<210> 3561  
<211> 26  
<212> PRT  
<213> Homo sapiens

<400> 3561  
Met Gln Ala Gln Phe Lys Thr Pro Ala Tyr Ser Lys Val Ser Val Leu  
1 5 10 15  
Ile Leu Thr His Cys Ile Leu Trp Val Trp  
20 25

<210> 3562  
<211> 26  
<212> PRT  
<213> Homo sapiens

<400> 3562  
Met Leu Asn Val Lys His Met Pro Asn Ile Ser Leu Val Leu Phe Val  
1 5 10 15  
Thr Phe Phe Pro Gln Tyr Phe Arg Val Ile  
20 25

<210> 3563  
<211> 30  
<212> PRT  
<213> Homo sapiens

<400> 3563  
Met His Ser Arg Lys Pro Val Arg Val Leu Ser Ile Leu Gln Leu Val  
1 5 10 15  
Leu Gly Leu Tyr Pro Ser Cys Lys Asp Val Met Pro Gln Lys  
20 25 30

<210> 3564  
<211> 21  
<212> PRT  
<213> Homo sapiens

<400> 3564  
Met Gln Arg Phe Val Gly Leu Cys Gly Asn Ile Ile Ile Ile Trp Pro  
1 5 10 15  
Cys Val Ala Met Ser  
20

<210> 3565  
<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 3565  
Phe His Leu Tyr Ser Leu Leu Leu Val  
1 5

<210> 3566  
<211> 25  
<212> PRT  
<213> Homo sapiens

<400> 3566  
Met Ala Gln Glu Ser Leu Ser Pro Leu Gly Leu Leu Ile Leu Val Cys  
1 5 10 15  
Ala Glu Pro Ser Val Cys Ala Glu Gly  
20 25

<210> 3567  
<211> 34  
<212> PRT  
<213> Homo sapiens

<400> 3567  
Met Lys Cys Ile Ser Met Ala Ile Leu Phe Trp Ile Tyr Gly Gly Ser  
1 5 10 15  
Arg Ala Phe Leu Thr Leu Lys Val Val Cys Val Arg Glu Lys Ala Phe  
20 25 30

Thr Ala

<210> 3568  
<211> 21  
<212> PRT



<212> PRT  
<213> Homo sapiens

<400> 3572  
Met Gly Leu Thr Gly Pro Phe Thr Phe Ile Tyr Leu Leu Phe Glu Ile  
1 5 10 15  
Leu Ser Gly Gln Thr Thr Glu Pro Gln Ile Asn Tyr Phe Leu Thr Lys  
20 25 30  
Phe Trp

<210> 3573  
<211> 28  
<212> PRT  
<213> Homo sapiens  
  
<400> 3573  
Met Arg Phe Ser Lys Asn Val Ile Trp Val His Asn Phe Ile Leu Leu  
1 5 10 15  
Trp Ser Asp Asn Ser Pro Cys Glu Ile Ser Ala Phe  
20 25

<210> 3574  
<211> 16  
<212> PRT  
<213> Homo sapiens  
  
<400> 3574  
Asp Pro Pro Cys Pro Ala Ser Ile Pro Thr Ile Leu Tyr Ser Thr Leu  
1 5 10 15

<210> 3575  
<211> 73  
<212> PRT  
<213> Homo sapiens  
  
<400> 3575  
Met Ala Pro Arg Pro His Leu Leu Thr Val Leu Leu Leu Leu Pro Leu  
1 5 10 15  
Gly Leu Asn Pro Lys Ala Ser Leu Gln Trp Gly Gly Pro Cys Leu Gly  
20 25 30  
Lys Ala Gly Ala Ser Ser Pro Leu Val Pro Leu Leu Leu Trp Arg Val  
35 40 45  
Ser Cys Glu Val Ser Val Ile Pro Lys Val Lys Phe Ala Gly Leu Asn  
50 55 60







Gln Val Phe Pro Tyr Thr Gly Ser Ile Leu His Ser  
 65 70 75

<210> 3582  
 <211> 70  
 <212> PRT  
 <213> Homo sapiens

<400> 3582  
 Met Leu Leu Tyr Val Ser Val Gln Thr Pro Cys Leu Leu Ile Phe Cys  
 1 5 10 15  
 Val Asp Val Leu Leu Thr Ile Glu Ser Gly Ser Phe Gln Pro Pro Ala  
 20 25 30  
 Met Ile Arg Ala Thr Pro Tyr Phe Leu Gln Phe His Gln Trp Leu Leu  
 35 40 45  
 His Ile Phe Trp Asp Ser Val Phe Asp Phe Gly Thr Tyr Ile Phe Lys  
 50 55 60  
 Ile Ile Val Ser Pro Cys  
 65 70

<210> 3583  
 <211> 34  
 <212> PRT  
 <213> Homo sapiens

<400> 3583  
 Met Asn Gly Asn His Ala Trp Ile Ser Trp Ala Phe Ser Met Leu Phe  
 1 5 10 15  
 Phe Pro Ser Pro Leu Pro Gly Ile Tyr Ser Lys Leu Thr Tyr Asn Ser  
 20 25 30  
 Glu Asn

<210> 3584  
 <211> 54  
 <212> PRT  
 <213> Homo sapiens

<400> 3584  
 Met Val Met Leu Thr Leu Ser Ile Cys Ile Ser Thr Ser Leu Leu Gly  
 1 5 10 15  
 Asp Thr Ala Gly Val Ser Phe Ser Glu Glu Cys His Thr Thr Met Glu  
 20 25 30  
 Leu Phe Ser Ile Asp Leu Glu Ile Gly Asn Phe Leu Tyr Thr Leu Arg  
 35 40 45  
 Glu Asn Phe Phe Glu Met

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<400> 3585
Met Leu Asn Gly Gly Gly Glu Leu Gly Ile Leu His Leu Phe Leu Ile
  1                      5                      10                      15

Ile Leu Asp Ile Ser Leu Leu Glu Glu Lys Leu Ser Val Thr Thr Glu
  20                      25                      30

His Lys Val Asp Phe Ser Leu Ser Ser Pro Ile Phe
  35                      40

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<400> 3586
Met Ala Pro Lys Ala Trp Pro
  1                               5
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<220>
<221> SITE
<222> (303)
<223> Xaa equals any of the naturally occurring L-amino acids
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Gly Cys Phe Pro Leu Ser Val Arg Thr Val Asn Val Asp Met Lys Val  
20 25 30

His Ser Pro Val Glu  
35

<210> 3589  
<211> 33  
<212> PRT  
<213> Homo sapiens

<400> 3589  
Met Val Leu Leu Val Gln Ala Asp Cys Phe Ser Leu Leu Met Asn Ile  
1 5 10 15

Ala Trp Leu Leu Ile Ile Ser Tyr Leu Glu Gly Ser Leu Gly Glu Gln  
20 25 30

Phe

<210> 3590  
<211> 104  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (99)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (103)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 3590  
Met Leu Ser Pro Trp Trp Gly Ser Asp Cys Phe Leu Glu Leu Ala Leu  
1 5 10 15

Phe Phe Ser Ala Ser Glu Leu Ser Leu Leu Pro Leu Ala Leu Ser Ile  
20 25 30

Phe Pro Ile Tyr Ile Cys Leu Ser Arg Phe Lys Phe Tyr Leu Leu Gln  
35 40 45

Asp Ala Asn His Asn Phe Pro Ile Lys Cys Asn Leu Leu Val Phe Ala  
50 55 60

Ser Pro Thr Val Leu Cys Gln Lys Cys Ser Pro Arg Gly Thr Glu Asn  
65 70 75 80

Tyr Ser Phe Leu Gln Cys Gly Cys Ser His Pro Pro Phe Phe Leu Pro  
85 90 95

Phe Cys Xaa Gln Thr Pro Xaa Arg



Ile Arg Asp Phe Leu Ala Ile Val Phe Phe Ala Ser Ile Gly Leu His  
 275 280 285

Val Phe Pro Thr Phe Val Ala Tyr Glu Leu Thr Val Leu Val Phe Leu  
 290 295 300

Thr Leu Ser Val Val Val Met Lys Phe Leu Leu Ala Ala Leu Val Leu  
 305 310 315 320

Ser Leu Ile Leu Pro Arg Ser Ser Gln Tyr Ile Lys Trp Ile Val Ser  
 325 330 335

Ala Gly Leu Ala Gln Val Ser Glu Phe Ser Phe Val Leu Gly Ser Arg  
 340 345 350

Ala Arg Arg Ala Gly Val Ile Ser Arg Glu Val Tyr Leu Leu Ile Leu  
 355 360 365

Ser Val Thr Thr Leu Ser Leu Leu Leu Ala Pro Val Leu Trp Arg Ala  
 370 375 380

Ala Ile Thr Arg Cys Val Pro Arg Pro Glu Arg Arg Ser Ser Leu  
 385 390 395

<210> 3592  
 <211> 23  
 <212> PRT  
 <213> Homo sapiens

<400> 3592  
 Met Gly Leu Ala Gln Val Val Leu Pro Ala Val Ala His Met Ser Leu  
 1 5 10 15

Ala Pro Val Thr Leu Leu Ala  
 20

<210> 3593  
 <211> 39  
 <212> PRT  
 <213> Homo sapiens

<400> 3593  
 Met Ala Phe Phe Cys Ser Cys Gly Ser Arg Ala Val Glu Thr Ser Trp  
 1 5 10 15

Val Phe Leu Leu Ile Leu Cys Gln Pro Pro Gly Ala Val Cys Thr Gly  
 20 25 30

Val Gly His Leu Ala Pro Phe  
 35

<210> 3594  
 <211> 61  
 <212> PRT  
 <213> Homo sapiens



<400> 3594

Met Trp Leu Phe Arg Ser Leu Ser Gly Leu Phe Thr Asp Ile Leu Ala  
1 5 10 15

Ser Pro Gln Leu Ser Leu Thr Lys Gly Tyr Ser Gln Lys Trp Ser Pro  
20 25 30

Tyr Phe Pro Ser Ser Asn Asp Tyr Leu Pro Gly Gly Arg Ser Ser Ser  
35 40 45

Val His Ser Ile Cys Phe Arg Thr Tyr Ala Gln Arg Leu  
50 55 60

<210> 3595

<211> 48

<212> PRT

<213> Homo sapiens

<400> 3595

Met Ser Ile Leu Ser Val Ser His Phe Glu Asp Phe Phe Ser Leu Leu  
1 5 10 15

Tyr Leu Cys Phe Ser Phe Phe Gly Phe Tyr Phe Val Val Leu Ser Val  
20 25 30

Ile Phe Asn Val Pro Lys Ile Cys Thr Cys Ser Ile Lys Asn Val Val  
35 40 45

<210> 3596

<211> 71

<212> PRT

<213> Homo sapiens

<400> 3596

Met Ala Gly Met Ala Leu Ala Arg Ala Trp Lys Gln Met Ser Trp Phe  
1 5 10 15

Tyr Tyr Gln Tyr Leu Leu Val Thr Ala Leu Tyr Met Leu Glu Pro Trp  
20 25 30

Glu Arg Thr Val Phe Asn Ser Met Leu Val Ser Ile Val Gly Met Ala  
35 40 45

Leu Tyr Thr Gly Tyr Val Phe Met Pro Gln His Ile Met Ala Ile Leu  
50 55 60

His Tyr Phe Glu Ile Val Gln  
65 70

<210> 3597

<211> 7



Ile Val Ala Ala Ser Glu His Ala Cys Ile Pro Thr Asp Ile  
 20 25 30

<210> 3601  
 <211> 32  
 <212> PRT  
 <213> Homo sapiens

<400> 3601  
 Met His Leu Ser Asn Ala Cys Leu Val Phe Val Leu Gln Thr Cys Leu  
 1 5 10 15  
 Trp Trp Arg Val Val Ser Cys Ser Pro Val Arg Leu Lys Ala Ala Leu  
 20 25 30

<210> 3602  
 <211> 34  
 <212> PRT  
 <213> Homo sapiens  
 <400> 3602  
 Met Thr Met Phe Phe Ser Thr Trp Lys Ile Ala Thr Leu Cys Ser Thr  
 1 5 10 15  
 Phe Ser Gln Pro Gln Pro Trp Ser Thr Ile Thr Met Lys Lys Lys Asn  
 20 25 30

Met Pro

<210> 3603  
 <211> 28  
 <212> PRT  
 <213> Homo sapiens

<400> 3603  
 Met Cys Thr Ala Gly Ile Ala Glu Leu Leu Thr Trp Ile Leu Val Leu  
 1 5 10 15  
 Ala Phe Leu Leu Leu Gln Phe Gln Tyr Leu His Leu  
 20 25

<210> 3604  
 <211> 42  
 <212> PRT  
 <213> Homo sapiens

<400> 3604  
 Met Tyr Leu Val Ile Phe Ser Cys Cys Pro Leu Gly Val Phe Pro Phe  
 1 5 10 15

Phe Ser His Val Asn Ile Phe His Arg Tyr Pro Cys Ser Leu Leu Asn  
 20 25 30

Leu Gln Ala His Thr Met Leu His Arg Ser  
 35 40

<210> 3605  
 <211> 30  
 <212> PRT  
 <213> Homo sapiens

<400> 3605  
 Met Val Ile Val Leu Tyr Ile Asn Ile Glu His Cys Cys Asp Cys Ser  
 1 5 10 15

Arg Thr Phe Tyr Val Thr Ala Leu Lys Gln Arg His Asp Tyr  
 20 25 30

<210> 3606  
 <211> 26  
 <212> PRT  
 <213> Homo sapiens

<400> 3606  
 Gly Gln Leu Arg Trp Ser Ser Leu Val Ser Gln Phe Ala Cys Leu Phe  
 1 5 10 15

Ile Leu Phe Ser Ala Lys Cys Ile Pro Phe  
 20 25

<210> 3607  
 <211> 37  
 <212> PRT  
 <213> Homo sapiens

<400> 3607  
 Met Val Phe Thr Phe Asp Leu Phe Gly Ile Leu Leu Thr Ser Gly Ile  
 1 5 10 15

Leu Gly Arg His Phe Phe Tyr Ser Ser Ala Tyr Glu Phe Lys Ala Ile  
 20 25 30

Phe Cys Lys Tyr Phe  
 35

<210> 3608  
 <211> 72  
 <212> PRT  
 <213> Homo sapiens

<400> 3608  
 Met Ser Asn Thr Thr Val Pro Asn Ala Pro Gln Ala Asn Ser Asp Ser

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1 5 10 15  
Met Val Gly Tyr Val Leu Gly Pro Phe Phe Leu Ile Thr Leu Val Gly  
20 25 30  
Val Val Val Ala Val Val Arg Ser Pro His Ile His Thr Asp Thr His  
35 40 45  
Ser Phe Ala Lys Ala Gly Ala Gly Trp Ala Trp Ser Ser Leu His Arg  
50 55 60  
Val Pro Thr Val Leu Leu Arg Glu  
65 70

<210> 3609  
<211> 39  
<212> PRT  
<213> Homo sapiens

<400> 3609  
Cys Ala Ser Ser Pro Phe Leu Ser Leu Gly Pro Pro Arg His Thr Ile  
1 5 10 15  
Ser Val Lys Gly Leu Ser Ser Pro His Gly Leu Leu Ser Gln Pro Phe  
20 25 30  
Pro Leu Trp Gln Pro Trp Gly  
35

<210> 3610  
<211> 28  
<212> PRT  
<213> Homo sapiens

<400> 3610  
Phe Gly Phe Gly Gly Cys Phe Phe Val Val Ala Trp Phe Gly Ile Phe  
1 5 10 15  
Gly Phe Val Cys Ile Cys Ile Asn Phe Leu Tyr Asn  
20 25

<210> 3611  
<211> 48  
<212> PRT  
<213> Homo sapiens

<400> 3611  
Met Met Gly Trp Arg Ile Leu Ala Ile Gly Ala Val Leu Thr Ala Ala  
1 5 10 15  
Gly Arg Leu Gly Phe Pro Leu Pro Ser Leu Ile Leu Val Leu Tyr Pro  
20 25 30  
Pro Phe His Ser Ser Pro Asp Ser Leu Ser Ser Ser Ser Leu Tyr Leu  
35 40 45





<210> 3618  
 <211> 42  
 <212> PRT  
 <213> Homo sapiens

<400> 3618  
 Met Ser Leu Gly Glu Thr Leu Leu Ile Thr Thr Tyr Val Pro Val Phe  
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 Leu Leu Leu Gly Val Pro Gly Cys Arg Pro Pro Leu Gly Lys Ala Val  
                   20                  25                  30  
 Thr Gly Arg Cys Ser Ser Thr Phe Leu Asp  
                   35                  40

<210> 3619  
 <211> 36  
 <212> PRT  
 <213> Homo sapiens

<400> 3619  
 Met Glu Arg Ala Leu Phe Ser Val Pro His Leu Leu Val Val Leu Asp  
           1                  5                  10                  15  
 Phe Thr Thr Cys Ala Cys Ile Ala Tyr Thr Asn Lys Asp Thr Asn Leu  
                   20                  25                  30  
 Lys Lys Lys Lys  
                   35

<210> 3620  
 <211> 51  
 <212> PRT  
 <213> Homo sapiens

<400> 3620  
 Met Ala Leu Phe Leu Leu His Ile His Cys Leu Phe Met Ser Ile Pro  
           1                  5                  10                  15  
 Phe Pro Ser Ala Lys Gln Thr Gly Gly Lys Thr Glu Thr Gly Ser Phe  
                   20                  25                  30  
 Arg Asp Gly Gln Arg Thr Leu Phe Trp Ile Val Asp Val Asp Phe Phe  
                   35                  40                  45  
 Val His Lys  
           50

<210> 3621  
 <211> 106  
 <212> PRT  
 <213> Homo sapiens

<400> 3621

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Met Leu Phe Thr Leu Leu Val Ser Cys Tyr Val Phe Leu Pro Leu Ala  
 1 5 10 15  
 Leu Pro Cys Phe Ala Phe Phe Phe Ser Phe Trp Pro Ile Pro Phe Tyr  
 20 25 30  
 Met Cys Pro Gln Gln Arg Trp Gly Asp Thr Glu His Pro Gly Ser Phe  
 35 40 45  
 Pro Ala Leu Leu Gly Arg Pro Arg Leu Gln Ala Pro Ala Val Glu Thr  
 50 55 60  
 Leu Lys Gly Asn Lys Gln Pro Ser Thr Leu Pro Asp Pro Arg Leu Phe  
 65 70 75 80  
 Arg Glu Ala Ala His Phe His Pro Gly Pro Arg Thr Pro Ser Leu Cys  
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 Pro Thr Arg Ile Ser Leu Asn Gly Arg Asp  
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<210> 3622  
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 <212> PRT  
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<400> 3622  
 Met Thr Phe Val Cys Lys Trp Leu Leu Gly Leu Glu Met Ala Trp Phe  
 1 5 10 15  
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 20 25 30  
 Leu Arg Val Leu  
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<210> 3623  
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<400> 3623  
 Gly Ser Cys Leu Lys Leu Thr Gln Phe Lys Tyr Ser Phe Cys Lys Thr  
 1 5 10 15  
 Asp Phe

<210> 3624  
 <211> 62  
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<400> 3624  
 Met Gly Phe Ser Leu Phe Phe Leu Phe Phe Leu Pro Pro Phe Ala Val

137753 600000

1 5 10 15  
Phe Pro Asp Leu His Leu Leu Lys Ser Lys Cys Thr Phe Leu Gly Leu  
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Ser Lys Cys Arg Ser Phe Met Leu Ser Tyr His Thr Pro Thr Glu Cys  
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Arg Ser His Thr Ala Lys Ala Leu Ala Cys His Ile Val Met  
50 55 60

<210> 3625  
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<400> 3625  
Met Val Val Ala Tyr Gly Arg Val Phe Met Leu Tyr Leu Ser Leu Leu  
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Phe Asn Phe Tyr Gln Ile Lys Gly Ser Lys Asn Ile Asn Leu  
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<400> 3626  
Met Gln Gln Ile Lys Phe Val Val Phe Ala Phe Gln Gly Val Thr Gly  
1 5 10 15  
Cys Pro

<210> 3627  
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<212> PRT  
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<400> 3627  
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Gln Tyr Phe Leu Ala Leu Gly Leu Leu Leu Ser Gln Phe Leu Ser Leu  
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Met Met Asn Gly Leu Gly  
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<400> 3632

Met Gly

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<210> 3633

<211> 44

<212> PRT

<213> Homo sapiens

<400> 3633

Met Ile Phe His Leu Ser Asn Leu Leu Leu Asp Thr Ile Cys Thr Phe

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Leu Phe Ser Cys Ser Gln Gly Gly Gly Leu Gln Gly Pro Glu Leu Cys

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30

Tyr Pro Thr Arg Phe Leu Ile Glu Ile Pro Asn His

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<210> 3634

<211> 37

<212> PRT

<213> Homo sapiens

<400> 3634

Met Leu Gly Ile Val Ile Ser Cys Leu Phe Tyr Cys Trp Thr Lys Trp

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Glu Ala Lys Glu Val Cys Gln Arg Arg Trp Arg Val Arg Arg Tyr His

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Leu Ser Lys Ile Ser

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<210> 3635

<211> 31

<212> PRT

<213> Homo sapiens

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Met Ile Leu Asp Thr Lys Met Trp Val Leu Ser Ile Leu Val Ala Val

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10

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Gly Val Leu Ile Ala Ser Arg Ala Ser Gln Asp Arg Ala Arg Lys

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25

30

<210> 3636

<211> 22

<212> PRT

<213> Homo sapiens

<400> 3636

Met Val Phe Ile Phe Ile Ser Thr Cys Gln Leu Cys Ile Ser Lys Thr

0050003.04304



180					185					190					
Arg	Leu	Ser	Pro	Ala	Pro	Leu	Ala	His	Pro	Ser	His	Pro	Glu	Arg	Ala
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	210					215					220				
Glu	Ala	Met	Asp	Lys	Asp	Phe	Asp	His	His	Asp	Ser	Pro	Ala	Leu	Glu
225					230					235					240
Val	Phe	Thr	Glu	Gln	Pro	Pro	Ser	Pro	Leu	Pro	Lys	Ser	Lys	Gly	Lys
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Lys	Glu	Lys	Lys	Gly	Lys	Gly	Lys	Pro	Gln	Glu	Asp	Glu	Leu	Lys	Asp
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	290					295						300			Asn
Pro	Asp	Thr	Glu	Pro	Leu	Leu	Lys	Glu	Asp	Thr	Glu	Lys	Gln	Lys	Gly
305					310					315					320
Lys	Gln	Ala	Met	Pro	Glu	Lys	His	Glu	Ser	Glu	Met	Ser	Gln	Val	Lys
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Gln	Lys	Ser	Lys	Lys	Leu	Leu	Asn	Ile	Lys	Lys	Glu	Ile	Pro	Thr	Asp
			340					345					350		
Val	Lys	Pro	Ser	Ser	Leu	Glu	Leu	Pro	Tyr	Thr	Pro	Pro	Leu	Glu	Ser
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Thr	Ser	Gly	Ser	Lys	Ser	Arg	Asn	Ala	Gln	Lys	Thr	Lys	Gly	Thr	Ser
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Lys	Leu	Val	Asp	Asn	Arg	Pro	Pro	Ala	Leu	Ala	Lys	Phe	Leu	Pro	Asn
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Ser	Gln	Glu	Leu	Gly	Asn	Thr	Ser	Ser	Ser	Glu	Gly	Glu	Lys	Asp	Ser
			420					425					430		
Pro	Pro	Pro	Glu	Trp	Asp	Ser	Val	Pro	Val	His	Lys	Pro	Gly	Ser	Ser
		435					440					445			
Thr	Asp	Ser	Leu	Tyr	Lys	Leu	Ser	Leu	Gln	Thr	Leu	Asn	Ala	Asp	Ile
	450					455					460				
Phe	Leu	Lys	Gln	Arg	Gln	Thr	Ser	Pro	Thr	Pro	Ala	Ser	Pro	Ser	Pro
465					470					475					480
Pro	Ala	Ala	Pro	Cys	Pro	Phe	Val	Ala	Arg	Gly	Ser	Tyr	Ser	Ser	Ile
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<211> 34  
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 <213> Homo sapiens

<400> 3644  
 Met Arg Lys Tyr Cys Leu Gly Phe Cys Tyr Ser Val Phe Ile Leu Gly  
 1 5 10 15  
 Arg Val Leu Asn Phe Met His Leu His Leu Leu Ala Cys Gly Cys Ala  
 20 25 30  
 Lys Cys

<210> 3645  
 <211> 37  
 <212> PRT  
 <213> Homo sapiens  
 <400> 3645  
 Lys Thr Ile His Ser Tyr Leu Phe Phe Phe Ser Pro Tyr Cys Leu Ser  
 1 5 10 15  
 Gln Leu Thr Leu Tyr Thr Asp Phe Val Ser Pro Ser Ile Pro Phe Thr  
 20 25 30  
 Pro Asp Tyr Lys Phe  
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<210> 3646  
 <211> 28  
 <212> PRT  
 <213> Homo sapiens  
 <400> 3646  
 Met Lys Gly Phe Phe Leu Ile Val Phe Met Leu Ser Arg Ala Glu Glu  
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 Glu Glu Asp Glu Gly Leu Val Leu Leu Ser Cys Gly  
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<210> 3647  
 <211> 31  
 <212> PRT  
 <213> Homo sapiens  
 <400> 3647  
 Met Ile Arg His Leu Arg Asn Thr Gly Ala Leu Leu Leu Phe Ser Leu  
 1 5 10 15  
 Gln Leu Val Trp Ala Asp Lys Arg Glu Ile Glu Pro Ser His Ser  
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<210> 3648  
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<400> 3648  
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<400> 3649  
 Met Arg Gly Ser Ser Gln Leu Cys Leu Val Leu Leu Leu Pro Ala Ala  
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 Leu

<210> 3650  
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 <212> PRT  
 <213> Homo sapiens

<400> 3650  
 Met Trp Gly Arg Ser Phe Leu Gln Leu  
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<210> 3651  
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 <212> PRT  
 <213> Homo sapiens

<400> 3651  
 Gly His Thr Glu Gly Ile Ala Val Val Ser His Phe Gly Phe Leu Leu  
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<210> 3652  
 <211> 34  
 <212> PRT  
 <213> Homo sapiens

<400> 3652  
 Met Asp Leu Phe Gly Phe Arg Ala Leu Leu Ser Phe His Trp Asn Val  
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 Leu Phe Ala Leu Ala Leu Phe Phe Phe Phe Trp Phe Leu Leu Ala  
 20 25 30

Phe Ile

<210> 3653  
<211> 46  
<212> PRT  
<213> Homo sapiens

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Met Thr Arg Arg His Ile Val Leu Leu Arg Glu Phe Trp His Trp Glu  
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Arg Cys Arg Leu Ser Arg Met Thr Ala Ile Pro Thr Pro Gln Ser Val  
20 25 30  
Leu Arg Asp Cys Gly Glu Gly Ala Ser Gly Thr Gly Lys Val  
35 40 45

<210> 3654  
<211> 126  
<212> PRT  
<213> Homo sapiens

<400> 3654  
Met Val Ala Gly Leu Ile Pro Ala Pro Ala Leu Val Pro Val Phe Cys  
1 5 10 15  
Trp Phe Val Ser Leu Phe Ser Pro His Glu Leu Phe Leu Gln Leu Phe  
20 25 30  
Phe Lys Met Arg Leu Ser Gly Ser Val Ser Pro Met Arg Ala Gly Ala  
35 40 45  
Thr Cys Gly Ile Ser Trp Thr Arg Pro Arg Gly Cys Arg Gly Gln Pro  
50 55 60  
Gly Arg Glu Glu Arg Glu Lys Pro Gly Gln Arg Trp Gly Gly Gly Ser  
65 70 75 80  
Ser Pro Glu Ser Pro Arg Leu Gly Gln Ser Gly Arg Gln Pro Glu Ala  
85 90 95  
Arg Gly Leu Gly Glu Glu Ser Leu Val Asp Gly Arg Glu Arg Gly Ala  
100 105 110  
Leu Leu Tyr Ala Pro Gly Ala Leu Cys Arg Arg Ala Ala Gly  
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<210> 3655  
<211> 66  
<212> PRT  
<213> Homo sapiens

<400> 3655

Met Ala Leu Ile Leu Ile Val Phe Lys Tyr Gln Ser Phe Phe Arg Leu  
 1 5 10 15  
 His Ser Cys Asn Gln Gln Pro His Ala Lys Val Leu Glu Pro Ala Val  
 20 25 30  
 Glu Leu Gln Asp Glu Asp Gly Met Val His Leu Ser Thr Val Ile Ser  
 35 40 45  
 Tyr Asn Leu Lys Asn Arg Gln Ala Gly Asn Val Tyr Ile Glu Ser Tyr  
 50 55 60  
 Ile Pro  
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<210> 3656  
 <211> 49  
 <212> PRT  
 <213> Homo sapiens

<400> 3656  
 Asp Gln Arg Gln Trp Leu Gly Val Met Cys Glu Leu Ser Leu Leu Leu  
 1 5 10 15  
 Arg Met Leu Phe Cys Glu Arg Asn Cys Glu Cys Asn Gly Asn Val Gly  
 20 25 30  
 Ala Ser Gly Asp Ser Leu Ser Cys Pro Leu Thr Ser Lys Ala Ser Cys  
 35 40 45  
 Ala

<210> 3657  
 <211> 69  
 <212> PRT  
 <213> Homo sapiens

<400> 3657  
 Met Gly Ala Trp Gly Arg Gly Trp Pro Trp Glu Glu Arg Gln Gly His  
 1 5 10 15  
 His Leu Leu Leu Leu Leu Leu Pro Ala Pro Thr Leu Lys Gly Leu Gly  
 20 25 30  
 Ala Ala Gln Leu Pro Leu Cys Pro Ser Gly Gly Leu Ser Pro Leu Leu  
 35 40 45  
 Thr Leu Leu Gln Ser Arg Glu Thr Leu Asn Lys Ala Ile Arg Val Cys  
 50 55 60  
 Gln Lys Lys Lys Lys  
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<210> 3658

<211> 38  
<212> PRT  
<213> Homo sapiens

<400> 3658  
Met Ser Ile Phe Ser Val Leu Ile Phe Phe Pro Ser His Cys Tyr Ser  
1 5 10 15  
Leu Pro Ser Arg Val Arg Cys Gly Glu Ile Met Leu Ala Cys Phe His  
20 25 30  
Gly Asp Thr Glu Glu Lys  
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<210> 3659  
<211> 19  
<212> PRT  
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<400> 3659  
Met Ala Cys Ile Pro Ser Gly Leu Leu Ile Trp Ala Trp Asn Leu Trp  
1 5 10 15  
Phe Arg Ala

<210> 3660  
<211> 84  
<212> PRT  
<213> Homo sapiens

<400> 3660  
Met Arg Val Ala Val Gly Gln Ala Leu Gln Ile Met Val Ile Ala Trp  
1 5 10 15  
Cys Thr Gly Leu Ser Leu Val Ala Glu Ala Leu Leu Cys Lys Gly Lys  
20 25 30  
Ser Arg Ala Thr Val Thr Gly Glu Ala Gln Arg Pro Gln Pro His Thr  
35 40 45  
Gly Leu Leu Cys Arg Leu Pro Leu Asp Leu Arg Val Leu His Leu Trp  
50 55 60  
Lys Thr Val Trp Arg Ala Val Leu Trp Pro Gly Gly Arg Arg Thr Gln  
65 70 75 80  
Leu Ala Gly Ser

<210> 3661  
<211> 36  
<212> PRT  
<213> Homo sapiens

<400> 3661

Met Cys Tyr Phe Leu Val Ile Ser Ile Ile Leu Cys Ile Phe Arg Leu  
1 5 10 15

Phe Asn Ser Gln Met Tyr Met Ile Leu Pro Cys Phe Leu Lys Lys Asn  
20 25 30

Leu Ser Ile Met  
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<210> 3662

<211> 20

<212> PRT

<213> Homo sapiens

<400> 3662

Met Lys Ala Val Trp Tyr Leu Ala Ser Ser Phe Leu Ile Phe Leu Val  
1 5 10 15

Val Gln Lys Arg  
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<210> 3663

<211> 27

<212> PRT

<213> Homo sapiens

<400> 3663

Met Ile Arg Thr Val Ile Phe Ser Thr Leu Phe Leu Tyr Ser Val Pro  
1 5 10 15

Gly Met Thr Tyr Ser Ile Asp Phe Met Thr His  
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<210> 3664

<211> 32

<212> PRT

<213> Homo sapiens

<400> 3664

Thr Phe Leu Phe Leu Phe Trp Tyr Cys Lys Leu Ala Gly Trp Leu His  
1 5 10 15

Trp Leu Thr His Tyr Pro Leu His His Ile Leu Phe Phe Thr Tyr Tyr  
20 25 30

<210> 3665

<211> 39

<212> PRT

<213> Homo sapiens

00550003.004004

<400> 3665

Met Tyr Ile Ile Ile Ser Leu Thr Leu Ile Met Trp Arg Phe Arg Phe  
1 5 10 15

Phe Gln Leu Met Arg Leu Gln Pro Cys Leu Cys Leu Lys Lys Met Lys  
20 25 30

Lys Gln Asn Lys Thr Met Ser  
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<210> 3666

<211> 36

<212> PRT

<213> Homo sapiens

<400> 3666

Met Gly Leu Ser Gly Pro Gly Gly Ser Gln His Ser Leu His Phe Leu  
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Thr Ser Ser Ser Phe Leu Ile Phe Phe Ser Phe Phe Ser Ile Glu Thr  
20 25 30

Gly Ala Glu Ala  
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<210> 3667

<211> 77

<212> PRT

<213> Homo sapiens

<400> 3667

Met Glu Lys Gly Asp Pro Asp Pro Lys Pro Ala Leu Pro Ser Leu Trp  
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Cys Trp Gly Gly Pro Val Cys Leu Cys Asn Cys Val Cys Met Leu Val  
20 25 30

Phe Val Cys Ile Ser Val Phe Gln Val Tyr Val Ser Pro Cys Ala Pro  
35 40 45

Ala Pro Gln Leu Ser Thr Pro Gly Cys Leu Ser Pro Val Gly Leu Cys  
50 55 60

Leu Leu Gly Ile Lys Gln Gly Phe Leu Leu Gln Gly Met  
65 70 75

<210> 3668

<211> 26

<212> PRT

<213> Homo sapiens

<400> 3668

Met Ser Pro Phe Phe Leu Thr Val Leu Lys His Tyr Phe Ala Phe Leu  
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Phe Val Thr Lys Ser Phe Ile Phe Asn Gly  
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 <213> Homo sapiens

<400> 3669  
 Met Leu Lys Ser Asp Ala Val Lys Ala Ile  
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<210> 3670  
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 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (27)  
 <223> Xaa equals any of the naturally occurring L-amino acids

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 1 5 10 15  
 Val Ser Ile Asn Phe Phe Phe Phe Tyr Lys Xaa Arg Lys Val Tyr  
 20 25 30

<210> 3671  
 <211> 39  
 <212> PRT  
 <213> Homo sapiens

<400> 3671  
 Met Tyr Ile Cys Leu Ile Ile Leu Leu Ser Thr Val Phe Cys Gly Pro  
 1 5 10 15  
 Asp Ser Ala Phe Leu Cys Phe Phe Gly Phe Arg Leu Leu Val Ala Cys  
 20 25 30  
 Asp Phe Ser Asp Phe Trp Pro  
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<210> 3672  
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 <212> PRT  
 <213> Homo sapiens

<400> 3672  
 Met Arg Leu Val Ser Tyr Ile Val Phe Leu Asp Gly Phe Leu Leu Leu  
 1 5 10 15





Ser Lys Tyr Leu Trp Leu Leu Ser Ser Cys Ser Pro Glu Pro  
 20 25 30

<210> 3676  
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 <212> PRT  
 <213> Homo sapiens

<400> 3676  
 Met Thr Cys Ala Arg Ser Pro Leu Ala Leu Pro Thr Pro Leu Phe Phe  
 1 5 10 15

Phe Leu Leu Ile Leu Tyr Ser Gln Lys Arg Ile Ser Phe Ser Ser Phe  
 20 25 30

Phe His Ser Leu Lys Phe  
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<210> 3677  
 <211> 5  
 <212> PRT  
 <213> Homo sapiens

<400> 3677  
 Gly Lys Cys Ala Cys  
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<210> 3678  
 <211> 77  
 <212> PRT  
 <213> Homo sapiens

<400> 3678  
 Met Gln Lys Gln Leu Tyr Phe Arg Ala Trp Cys Tyr Leu Leu Ala Asn  
 1 5 10 15

Phe Leu Phe Phe Asp Leu Thr Ala Thr Thr Phe Asp Ser Thr Ser Leu  
 20 25 30

Lys Thr Ser Ala Arg Ser Arg Gln Tyr Thr Leu Thr Thr Leu Val Leu  
 35 40 45

Thr Ala Phe Pro Ile Ala Ser Leu Pro Phe Lys Leu Leu Leu Val Ser  
 50 55 60

Val Leu Pro Ser Asp Trp Ser Lys His Asn Lys Gly Leu  
 65 70 75

<210> 3679  
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 <212> PRT  
 <213> Homo sapiens

[illegible]

Phe Leu Ile Met Phe Leu Val Phe Cys Glu Ser Leu  
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<213> Homo sapiens

Ser Ser Lys Gly Leu Cys Phe Cys Thr Leu Pro Ser Thr Phe Leu Tyr  
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Asp Phe

<213> Homo sapiens

Cys Thr  
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<213> Homo sapiens

Trp Asp Trp Leu Leu Phe Val Gly Phe Gly Leu Gly Ser Pro Arg Lys  
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Lys

<210> 3683  
<211> 34  
<212> PRT  
<213> Homo sapiens

<400> 3683  
Lys Trp Leu Leu Phe Ile Phe Leu Leu Cys Leu Gln Leu Val Asn Ala  
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Leu Leu Ser Leu Phe Gln Glu Arg Phe Val His Cys Pro Ala Arg Phe  
20 25 30

Val Ser

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<212> PRT  
<213> Homo sapiens

<400> 3684  
Met Gln Leu Ala Val Phe Ala Phe Ser Thr Leu Trp Leu Trp Leu Leu  
1 5 10 15  
Ala Met Pro Arg Leu Ser Val Gly Met Pro Tyr Gly Ser  
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<210> 3685  
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<212> PRT  
<213> Homo sapiens

<400> 3685  
Met Arg Trp Leu Leu Leu Val Phe Asn Gln Ile Arg Phe Thr Val Ile  
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Ser Leu Ile Cys Ile Tyr Tyr Leu Phe Ala Ile Ile Leu Tyr Arg Ile  
20 25 30  
Phe Trp Ile His Val Leu Ala  
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<210> 3686  
<211> 30  
<212> PRT  
<213> Homo sapiens

<400> 3686  
Met Ala Phe Phe Lys Val Ser Tyr His Phe Leu Ile Ala Leu Leu Thr  
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Protein Data Bank

Tyr Asn Trp Thr Gln Pro Thr Leu Ser Ala Ser Val Asn Ser  
20 25 30

<210> 3687  
<211> 38  
<212> PRT  
<213> Homo sapiens

<400> 3687  
Met Ala Arg Ala Asp Trp Val Leu Ser Leu Leu Leu Tyr Asn His Ile  
1 5 10 15  
Thr Ala Leu Pro Cys Ile Phe Ser Ser Lys Asn Gly Asp Tyr Leu Leu  
20 25 30  
Cys Gly Ser Val Cys Arg  
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<210> 3688  
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<213> Homo sapiens

<400> 3688  
Met Phe Ile Ile Lys Ile  
1 5

<210> 3689  
<211> 22  
<212> PRT  
<213> Homo sapiens

<400> 3689  
His Cys Leu His Gln Lys Gln Phe Leu Phe Phe Phe Leu Ile Leu Leu  
1 5 10 15  
Leu Leu Tyr Leu Lys Phe  
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<210> 3690  
<211> 28  
<212> PRT  
<213> Homo sapiens

<400> 3690  
Pro Arg Thr Pro Cys Asn Val Gly Arg Pro Ala Leu Ser Ser Met Ala  
1 5 10 15  
Leu Thr Ser Cys Ser Gly Arg Thr Ser Ser Pro Gly  
20 25

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<213> Homo sapiens
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<213> Homo sapiens
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<210> 3694
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1838

Tyr Ser Leu Phe Asn Cys Val Glu Phe  
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<210> 3695  
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 <212> PRT  
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<400> 3695  
 Met Ala Cys Val Ile Leu Gly Phe Cys Val Phe Trp Trp Val Ser Phe  
 1 5 10 15  
 Leu Gly Ser Pro Asp Leu Leu Leu Gly Pro Val Leu Ser Ala Asn Pro  
 20 25 30  
 Ala Ser Phe Thr Cys Pro Ala His  
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<210> 3696  
 <211> 36  
 <212> PRT  
 <213> Homo sapiens

<400> 3696  
 Met Trp Val Arg Glu Gly Ile Trp Phe Cys Tyr Leu Ala Val Val Phe  
 1 5 10 15  
 Ser His Pro Ser Phe Leu Thr Ile Lys Ser His Leu Gly Leu Glu Lys  
 20 25 30  
 Lys Lys Lys Lys  
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<210> 3697  
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 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (298)  
 <223> Xaa equals any of the naturally occurring L-amino acids

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 Pro Ser Asp Cys Pro Glu His Gly Pro Val Thr Phe Val Pro Asp Thr  
 20 25 30  
 Pro Ile Glu Ser Arg Ala Arg Leu Ser Leu Pro Lys Gln Leu Val Leu  
 35 40 45  
 Arg Gln Ser Ile Val Gly Ala Glu Val Gly Val Trp Thr Gly Glu Thr  
 50 55 60

Ile	Pro	Val	Arg	Thr	Cys	Phe	Gly	Pro	Leu	Ile	Gly	Gln	Gln	Ser	His	65	70	75	80
Ser	Met	Glu	Val	Ala	Glu	Trp	Thr	Asp	Lys	Ala	Val	Asn	His	Ile	Trp	85	90	95	
Lys	Ile	Tyr	His	Asn	Gly	Val	Leu	Glu	Phe	Cys	Ile	Ile	Thr	Thr	Asp	100	105	110	
Glu	Asn	Glu	Cys	Asn	Trp	Met	Met	Phe	Val	Arg	Lys	Ala	Arg	Asn	Arg	115	120	125	
Glu	Glu	Gln	Asn	Leu	Val	Ala	Tyr	Pro	His	Asp	Gly	Lys	Ile	Phe	Phe	130	135	140	
Cys	Thr	Ser	Gln	Asp	Ile	Pro	Pro	Glu	Asn	Glu	Leu	Leu	Phe	Tyr	Tyr	145	150	155	160
Ser	Arg	Asp	Tyr	Ala	Gln	Gln	Ile	Gly	Val	Pro	Glu	His	Pro	Asp	Val	165	170	175	
His	Leu	Cys	Asn	Cys	Gly	Lys	Glu	Cys	Asn	Ser	Tyr	Thr	Glu	Phe	Lys	180	185	190	
Ala	His	Leu	Thr	Ser	His	Ile	His	Asn	His	Leu	Pro	Thr	Gln	Gly	His	195	200	205	
Ser	Gly	Ser	His	Gly	Pro	Ser	His	Ser	Lys	Glu	Arg	Lys	Trp	Lys	Cys	210	215	220	
Ser	Met	Cys	Pro	Gln	Ala	Phe	Ile	Ser	Pro	Ser	Lys	Leu	His	Val	His	225	230	235	240
Phe	Met	Gly	His	Met	Gly	Met	Lys	Pro	His	Lys	Cys	Asp	Phe	Cys	Ser	245	250	255	
Lys	Ala	Phe	Ser	Asp	Pro	Ser	Asn	Leu	Arg	Thr	His	Leu	Lys	Ile	His	260	265	270	
Thr	Gly	Gln	Lys	Asn	Tyr	Arg	Cys	Thr	Leu	Cys	Asp	Lys	Ser	Phe	Thr	275	280	285	
Gln	Lys	Ala	His	Leu	Glu	Ser	His	Met	Xaa	Ile	His	Thr	Gly	Glu	Lys	290	295	300	
Asn	Leu	Lys	Cys	Asp	Tyr	Cys	Asp	Lys	Leu	Phe	Met	Arg	Arg	Gln	Asp	305	310	315	320
Leu	Lys	Gln	His	Val	Leu	Ile	His	Thr	Gln	Glu	Arg	Gln	Ile	Lys	Cys	325	330	335	
Pro	Lys	Cys	Asp	Lys	Leu	Phe	Leu	Arg	Thr	Asn	His	Leu	Lys	Lys	His	340	345	350	
Leu	Asn	Ser	His	Glu	Gly	Lys	Arg	Asp	Tyr	Val	Cys	Glu	Lys	Cys	Thr	355	360	365	
Lys	Ala	Tyr	Leu	Thr	Lys	Tyr	His	Leu	Thr	Arg	His	Leu	Lys	Thr	Cys	370	375	380	





<210> 3701  
 <211> 31  
 <212> PRT  
 <213> Homo sapiens

<400> 3701  
 Met Gly Lys Gly Ile Ala Val Leu Ala Leu Trp Tyr Ala Ala Thr Ser  
           1                  5                  10                  15  
 Leu Gly Ser Arg Pro Cys Pro Cys Pro Thr Thr His Ser Gln Leu  
                   20                  25                  30

<210> 3702  
 <211> 17  
 <212> PRT  
 <213> Homo sapiens

<400> 3702  
 Met Leu Leu Phe Leu Ile Val Thr Leu Leu Met Asn Val Arg Ser Leu  
           1                  5                  10                  15  
 Gly

<210> 3703  
 <211> 50  
 <212> PRT  
 <213> Homo sapiens

<400> 3703  
 Met Phe Leu Leu Phe Pro Gln Thr Ser Leu Thr Val Leu Phe Val Ser  
           1                  5                  10                  15  
 Cys Pro Val Glu Gly Ser Arg Val His Ile Leu Leu Ser Val Asn Met  
                   20                  25                  30  
 Pro Trp Asn Leu His Lys Gly Arg Thr Met Cys Ser Phe Phe Gln Gln  
                   35                  40                  45  
 Leu Phe  
           50

<210> 3704  
 <211> 65  
 <212> PRT  
 <213> Homo sapiens

<400> 3704  
 Met His Arg Leu Ala Leu Trp Leu Leu Gly Leu Trp Gly Val Met Trp  
           1                  5                  10                  15  
 Ser His Thr Ser Ala Leu Leu Ala Leu Val Lys Leu Trp Lys Gly Arg  
                   20                  25                  30



50

55

<210> 3708  
 <211> 24  
 <212> PRT  
 <213> Homo sapiens

<400> 3708  
 Met Asn Cys Lys Lys Gln Leu Leu Thr Asp Ile Phe Leu Leu Leu Phe  
           1                  5                  10                  15  
 Leu Gly Gly Phe Phe Phe Phe  
                   20

<210> 3709  
 <211> 53  
 <212> PRT  
 <213> Homo sapiens

<400> 3709  
 Met Arg Phe Leu Ala His Val Leu Cys Ser Phe Ser Val Val Phe Leu  
           1                  5                  10                  15  
 His Leu Lys Asn Ser His Gly Ser Met Phe Tyr Lys Met Asn Tyr Gln  
                   20                  25                  30  
 Arg Asn Arg Asp Gly Pro Arg Phe Ser Glu Met Val Pro Cys Asp Gln  
           35                  40                  45  
 Val Leu Leu Phe Gly  
           50

<210> 3710  
 <211> 35  
 <212> PRT  
 <213> Homo sapiens

<400> 3710  
 Met Asp Leu Phe Cys Ser Phe Leu Pro Ser Leu Leu Ala Ile Met Phe  
           1                  5                  10                  15  
 Leu Cys Pro Pro Val Leu His Phe Met Gly Tyr His Val Gln Gln Gln  
                   20                  25                  30  
 Leu Arg Arg  
           35

<210> 3711  
 <211> 11  
 <212> PRT  
 <213> Homo sapiens

<400> 3711

Met Ser His Cys Val Trp Ser Leu Ala Val Ser  
 1 5 10

<210> 3712  
 <211> 28  
 <212> PRT  
 <213> Homo sapiens

<400> 3712  
 Met Pro Glu Trp Trp Gly Gln Met Leu Trp Thr Leu Gly Pro Ala Ala  
 1 5 10 15

Leu Pro Leu Leu Ala Gly Arg Cys Thr Arg Glu Val  
 20 25

<210> 3713  
 <211> 38  
 <212> PRT  
 <213> Homo sapiens

<400> 3713  
 Met Phe Gly Asn Ser Ser Cys Ser Thr Tyr Leu Leu Trp Val Ser Leu  
 1 5 10 15

Phe Asn Phe Gly His Ser Ser Glu Cys Ile Met Ile Ser Cys Tyr Gly  
 20 25 30

Phe Lys Phe Ala Phe Ser  
 35

<210> 3714  
 <211> 66  
 <212> PRT  
 <213> Homo sapiens

<400> 3714  
 Met Cys Cys Pro Ser Leu Leu Lys Phe Tyr Phe Arg Phe Ser Ile Gly  
 1 5 10 15

Tyr Leu Phe Cys Phe Leu Tyr Phe Phe Ser Leu Ser Leu Pro Pro Ser  
 20 25 30

Arg Pro Pro Arg Pro Ile Pro Phe Leu Pro Leu Asp Phe His Pro Leu  
 35 40 45

Gly Cys Leu Ala His Leu Tyr Ala Pro Ala Leu Gly Thr Gly Pro Asn  
 50 55 60

Thr Trp  
 65

<210> 3715  
 <211> 36

<212> PRT  
<213> Homo sapiens

<400> 3715  
Met Phe Cys His Cys Ile Val Cys Leu Leu Leu Val Leu Trp Ser Ser  
1 5 10 15  
Leu Pro Phe Phe Ile Pro Ser Phe Leu Leu Leu Lys Val Ile Leu Ser  
20 25 30  
Cys Gly Met Ile  
35

<210> 3716  
<211> 25  
<212> PRT  
<213> Homo sapiens

<400> 3716  
Met Met Thr Leu Gly Leu Ser Leu Phe Leu Phe Phe Cys Phe Val Gly  
1 5 10 15  
Cys Glu Phe Glu Arg Phe Cys Asp Lys  
20 25

<210> 3717  
<211> 38  
<212> PRT  
<213> Homo sapiens

<400> 3717  
Met Asp Phe Thr Lys Leu Leu Thr Tyr Thr Phe Gly Phe Ala Val Phe  
1 5 10 15  
Ile Val Leu Gly Lys Asn Cys Gly Phe Lys Asn Tyr Ser Leu Ile Lys  
20 25 30  
Leu Leu Lys Lys Lys Lys  
35

<210> 3718  
<211> 33  
<212> PRT  
<213> Homo sapiens

<400> 3718  
Met Phe Ile Gly Asp Ser Ala Tyr Ile Phe Ile Thr Tyr Leu Leu Phe  
1 5 10 15  
Trp Leu Leu Ser Asn Ile Leu Ser Phe Val Phe Ala Asn Ser Val His  
20 25 30  
Glu

<210> 3719  
 <211> 32  
 <212> PRT  
 <213> Homo sapiens

<400> 3719  
 Met Leu Lys Ile Leu Met Cys Lys Ser Pro Leu Ser Pro His Leu Phe  
 1 5 10 15  
 Tyr Lys Leu Leu Trp Leu Glu Gly Phe Cys Phe Trp Leu Leu Ser Gly  
 20 25 30

<210> 3720  
 <211> 406  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (254)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 3720  
 Met Ile Arg Ile Ala Ala Leu Asn Ala Ser Ser Thr Ile Glu Asp Asp  
 1 5 10 15  
 His Glu Gly Ser Phe Lys Ser His Lys Thr Gln Thr Lys Glu Ala Gln  
 20 25 30  
 Glu Ala Glu Ala Phe Ala Leu Tyr His Lys Ala Leu Asp Leu Gln Lys  
 35 40 45  
 His Asp Arg Phe Glu Glu Ser Ala Lys Ala Tyr His Glu Leu Leu Glu  
 50 55 60  
 Ala Ser Leu Leu Arg Glu Ala Val Ser Ser Gly Asp Glu Lys Glu Gly  
 65 70 75 80  
 Leu Lys His Pro Gly Leu Ile Leu Lys Tyr Ser Thr Tyr Lys Asn Leu  
 85 90 95  
 Ala Gln Leu Ala Ala Gln Arg Glu Asp Leu Glu Thr Ala Met Glu Phe  
 100 105 110  
 Tyr Leu Glu Ala Val Met Leu Asp Ser Thr Asp Val Asn Leu Trp Tyr  
 115 120 125  
 Lys Ile Gly His Val Ala Leu Arg Leu Ile Arg Ile Pro Leu Ala Arg  
 130 135 140  
 His Ala Phe Glu Glu Gly Leu Arg Cys Asn Pro Asp His Trp Pro Cys  
 145 150 155 160  
 Leu Asp Asn Leu Ile Thr Val Leu Tyr Thr Leu Ser Asp Tyr Thr Thr





Ser Ser Leu Cys Ile Thr Val Ser Phe Val Phe Leu Ala Cys Lys Leu  
 35 40 45

Leu Glu Asp Lys Gly Met Ser Glu Ser Ile  
 50 55

<210> 3722  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<400> 3722  
 Asn Ile Leu Phe Val Leu Ile Asp Ser Ile Leu Gly Ser Ser  
 1 5 10

<210> 3723  
 <211> 37  
 <212> PRT  
 <213> Homo sapiens

<400> 3723  
 Met Val Trp Ile Cys Val Leu Leu Gln Thr Leu Leu Arg His Ile Leu  
 1 5 10 15

Arg Ser Met Glu Arg Asn Arg Val Asp Asp Lys Val Cys Val Val Phe  
 20 25 30

Thr Lys Glu Tyr Ser  
 35

<210> 3724  
 <211> 410  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (8)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (404)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (409)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 3724  
 Gly Arg Leu Arg Asn Gly Ile Xaa Gly Ala Ala Gly Ile Pro Arg Ala  
 1 5 10 15

Asn Ala Ser Arg Thr Asn Phe Ser Ser His Thr Asn Gln Ser Gly Gly

20	25	30
Ser Glu Leu Arg Gln Arg Glu Gly Gln Arg Phe Gly Ala Ala His Val 35 40 45		
Trp Glu Asn Gly Ala Arg Ser Asn Val Thr Val Arg Asn Thr Asn Gln 50 55 60		
Arg Leu Glu Pro Ile Arg Leu Arg Ser Thr Ser Asn Ser Arg Ser Arg 65 70 75 80		
Ser Pro Ile Gln Arg Gln Ser Gly Thr Val Tyr His Asn Ser Gln Arg 85 90 95		
Glu Ser Arg Pro Val Gln Gln Thr Thr Arg Arg Ser Val Arg Arg Arg 100 105 110		
Gly Arg Thr Arg Val Phe Leu Glu Gln Asp Arg Glu Arg Glu Arg Arg 115 120 125		
Gly Thr Ala Tyr Thr Pro Phe Ser Asn Ser Arg Leu Val Ser Arg Ile 130 135 140		
Thr Val Glu Glu Gly Glu Glu Ser Ser Arg Ser Ser Thr Ala Val Arg 145 150 155 160		
Arg His Pro Thr Ile Thr Leu Asp Leu Gln Val Arg Arg Ile Arg Pro 165 170 175		
Gly Glu Asn Arg Asp Arg Asp Ser Ile Ala Asn Arg Thr Arg Ser Arg 180 185 190		
Val Gly Leu Ala Glu Asn Thr Val Thr Ile Glu Ser Asn Ser Gly Gly 195 200 205		
Phe Arg Arg Thr Ile Ser Arg Leu Glu Arg Ser Gly Ile Arg Thr Tyr 210 215 220		
Val Ser Thr Ile Thr Val Pro Leu Arg Arg Ile Ser Glu Asn Glu Leu 225 230 235 240		
Val Glu Pro Ser Ser Val Ala Leu Arg Ser Ile Leu Arg Gln Ile Met 245 250 255		
Thr Gly Phe Gly Glu Leu Ser Ser Leu Met Glu Ala Asp Ser Glu Ser 260 265 270		
Glu Leu Gln Arg Asn Gly Gln His Leu Pro Asp Met His Ser Glu Leu 275 280 285		
Ser Asn Leu Gly Thr Asp Asn Asn Arg Ser Gln His Arg Glu Gly Ser 290 295 300		
Ser Gln Asp Arg Gln Ala Gln Gly Asp Ser Thr Glu Met His Gly Glu 305 310 315 320		
Asn Glu Thr Thr Gln Pro His Thr Arg Asn Ser Asp Ser Arg Gly Gly 325 330 335		
Arg Gln Leu Arg Asn Pro Asn Asn Leu Val Glu Thr Gly Thr Leu Pro 340 345 350		



<210> 3728  
 <211> 224  
 <212> PRT  
 <213> Homo sapiens

<400> 3728  
 Met Leu Arg Ala Pro Gly Cys Leu Leu Arg Thr Ser Val Ala Pro Ala  
   1                  5                  10                  15  
 Ala Ala Leu Ala Ala Ala Leu Leu Ser Ser Leu Ala Arg Cys Ser Leu  
           20                  25                  30  
 Leu Glu Pro Arg Asp Pro Val Ala Ser Ser Leu Ser Pro Tyr Phe Gly  
           35                  40                  45  
 Thr Lys Thr Arg Tyr Glu Asp Val Asn Pro Val Leu Leu Ser Gly Pro  
       50                  55                  60  
 Glu Ala Pro Trp Arg Asp Pro Glu Leu Leu Glu Gly Thr Cys Thr Pro  
   65                  70                  75                  80  
 Val Gln Leu Val Ala Leu Ile Arg His Gly Thr Arg Tyr Pro Thr Val  
                   85                  90                  95  
 Lys Gln Ile Arg Lys Leu Arg Gln Leu His Gly Leu Leu Gln Ala Arg  
                   100                  105                  110  
 Gly Ser Arg Asp Gly Gly Ala Ser Ser Thr Gly Ser Arg Asp Leu Gly  
           115                  120                  125  
 Ala Ala Leu Ala Asp Trp Pro Leu Trp Tyr Ala Asp Trp Met Asp Gly  
   130                  135                  140  
 Gln Leu Val Glu Lys Gly Arg Gln Asp Met Arg Gln Leu Ala Leu Arg  
  145                  150                  155                  160  
 Leu Ala Ser Leu Phe Pro Ala Leu Phe Ser Arg Glu Asn Tyr Gly Arg  
                   165                  170                  175  
 Cys Gly Ser Ser Pro Val Pro Ser Thr Ala Ala Trp Ile Ala Ala Pro  
           180                  185                  190  
 Pro Ser Cys Arg Gly Cys Gly Ser Thr Thr Thr Leu Ala Cys Arg Arg  
       195                  200                  205  
 Arg Thr Ser Gln Ile Trp Ser Leu Asp Leu Gln Gln Leu Met Ile Asn  
   210                  215                  220

<210> 3729  
 <211> 11  
 <212> PRT  
 <213> Homo sapiens

<400> 3729

0950003.091204

Met Trp Pro Trp Asp Met Val Phe Ser Trp Ser  
1 5 10

<210> 3730  
<211> 51  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (51)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 3730  
Met Thr Val Val Thr Ala Leu Leu Leu Ile Ile Leu Gln Thr Arg Asn  
1 5 10 15  
Leu Asn Ser Gly Gln Ile Ser Val Lys Asn Trp Gln Met Phe Phe Met  
20 25 30  
Arg Thr Leu Ile Met Asn Leu Ser Ala Ala Phe Gln Lys Val Arg Cys  
35 40 45  
Lys Met Xaa  
50

<210> 3731  
<211> 40  
<212> PRT  
<213> Homo sapiens

<400> 3731  
Met Phe Trp Ile Pro Trp Val Leu Val Leu Cys Ser Ser Leu Pro Thr  
1 5 10 15  
Cys Ala Gln Asp Ala Ala Leu Gly Ser Ser Thr His Gly Ser Phe Cys  
20 25 30  
Trp Asp Gly Val Thr Tyr Gly Phe  
35 40

<210> 3732  
<211> 34  
<212> PRT  
<213> Homo sapiens

<400> 3732  
Met Leu Ser Gln Cys Leu Leu Gln Phe Val Val Trp Val Phe Phe Phe  
1 5 10 15  
Leu Lys Pro His Asn Asn Phe Gly Lys Gln Cys Met Gly Arg Thr Cys  
20 25 30  
Val Cys

<210> 3733  
 <211> 25  
 <212> PRT  
 <213> Homo sapiens

<400> 3733  
 Met Tyr Phe Cys Asp Thr Val Ile Met Phe Cys Ile Cys Leu Ile Leu  
           1                  5                  10                  15  
 Ala Asp Leu Gln Tyr Ala Ile Lys Val  
                   20                  25

<210> 3734  
 <211> 45  
 <212> PRT  
 <213> Homo sapiens

<400> 3734  
 Met Arg Trp Thr Cys Leu Leu Gly Thr Pro Gly His Pro Leu Phe Phe  
           1                  5                  10                  15  
 Leu Leu Cys Ala Trp Ser Ile Met Ser Thr Pro Ala Asp Pro Trp Lys  
                   20                  25                  30  
 Arg Lys Cys Leu Cys Cys Arg Val Leu His Gly His Glu  
           35                  40                  45

<210> 3735  
 <211> 36  
 <212> PRT  
 <213> Homo sapiens

<400> 3735  
 Met Leu Tyr Leu Asn Met Asn Gly Lys Phe Trp Phe Leu Ala Phe Thr  
           1                  5                  10                  15  
 Phe Tyr Tyr Leu Asn Phe Ile Asn Ala Asn Ile Ser Phe Val Ile Ser  
                   20                  25                  30  
 Tyr Ser Ile Ser  
           35

<210> 3736  
 <211> 36  
 <212> PRT  
 <213> Homo sapiens

<400> 3736  
 Met Leu Tyr Leu Asn Met Asn Gly Lys Phe Trp Phe Leu Ala Phe Thr  
           1                  5                  10                  15  
 Phe Tyr Tyr Leu Asn Phe Ile Asn Ala Asn Ile Ser Phe Val Ile Ser



<210> 3740  
 <211> 29  
 <212> PRT  
 <213> Homo sapiens

<400> 3740  
 Met Val Leu Val Leu Leu Cys Val Gly Pro Leu Gly Thr Gln Ala Gly  
           1                  5                  10                  15  
 Ala Asn Gly Ile Trp Ala Glu Leu Thr Glu Phe Leu Glu  
                   20                  25

<210> 3741  
 <211> 58  
 <212> PRT  
 <213> Homo sapiens

<400> 3741  
 Met Leu Leu Leu Val Ser Val Phe Ser Pro Val Leu Phe Ser Arg Ser  
           1                  5                  10                  15  
 Ser Thr Val Glu Met Asp Val Glu Pro Phe Cys Leu Val Leu Ser Ser  
                   20                  25                  30  
 Ala Phe Pro Glu Ile Thr Pro Pro Ile Ser Cys Leu Cys Leu Asn Met  
                   35                  40                  45  
 Phe Phe Ser Leu Leu Arg Ser Pro His Ser  
           50                  55

<210> 3742  
 <211> 33  
 <212> PRT  
 <213> Homo sapiens

<400> 3742  
 Met Val Cys Ala Cys Leu Leu Ser Leu Arg Leu Gly Leu Leu Thr Glu  
           1                  5                  10                  15  
 Cys Glu Tyr Lys Tyr Pro Tyr Leu Gly Glu Lys Tyr Ile Phe Lys Gly  
                   20                  25                  30

Trp

<210> 3743  
 <211> 33  
 <212> PRT  
 <213> Homo sapiens

<400> 3743  
 Met Phe Cys Ser Leu Leu Phe Ser Gln Tyr Val Gln Trp Leu Leu Ala





Ser Ser Gln Leu His Ser Leu Thr His Phe Ser Asp Ile Ser Ala Leu  
245 250 255

Thr Gly Gly Thr Val His Leu Asp Glu Asp Gln Asn Pro Ile Lys Lys  
260 265 270

Arg Lys Lys Ile Pro Gln Lys Gly Arg Lys Lys Lys Gly Phe Arg Arg  
275 280 285

Arg Arg  
290

<210> 3745  
<211> 24  
<212> PRT  
<213> Homo sapiens

<400> 3745  
Met Gly Gly Thr Pro Ser Thr Lys Cys Leu Val Thr Ser Ala Trp Ser  
1 5 10 15

Gly Phe Ser Ala Cys Thr Pro Cys  
20

<210> 3746  
<211> 25  
<212> PRT  
<213> Homo sapiens

<400> 3746  
Met Thr Arg Ser Leu Val Leu Arg Phe Lys Val Leu Leu Met Leu Gly  
1 5 10 15

Leu Leu Ile Glu Val Ser Glu Glu Leu  
20 25

<210> 3747  
<211> 73  
<212> PRT  
<213> Homo sapiens

<400> 3747  
Met Pro Ser Leu Trp Asp Arg Phe Ser Ser Ser Thr Phe Gln Leu  
1 5 10 15

Thr Leu Val Leu Arg Leu Asp Ser Arg Leu Trp Pro Lys Ile Gln Gly  
20 25 30

Leu Phe Ser Ser Ala Asn Ser Pro Phe Leu Pro Gly Phe Ser Gln Ser  
35 40 45

Leu Thr Leu Ser Thr Gly Phe Arg Val Ile Lys Lys Lys Leu Tyr Ser  
50 55 60

Ser Glu Gln Leu Leu Ile Glu Glu Cys

65

70

<210> 3748  
 <211> 55  
 <212> PRT  
 <213> Homo sapiens

<400> 3748  
 Met Pro His Pro Pro Leu Pro Glu Thr Ser Leu Glu Ala Gln Leu Pro  
           1                  5                  10                  15  
 Met Gly Leu Leu Gln Leu Leu Arg Cys Ser Val Gln Ala Trp Ser Pro  
                   20                  25                  30  
 Pro Pro Ser Ser Phe Cys Pro Gly Ser Glu Pro Arg Ser Ala Ser Ala  
                   35                  40                  45  
 His Trp Gly Tyr Trp Trp Pro  
           50                  55

<210> 3749  
 <211> 27  
 <212> PRT  
 <213> Homo sapiens

<400> 3749  
 Met Pro Ile Ser Val Ser Ser Phe Cys Ala Ala Val Ile Val Gly Leu  
           1                  5                  10                  15  
 Pro Val Ser Phe Glu Leu Trp Ala Leu Pro Gly  
                   20                  25

<210> 3750  
 <211> 33  
 <212> PRT  
 <213> Homo sapiens

<400> 3750  
 Met Ile Val Val Val Leu Trp Ile Asn Leu Cys Ser Trp Phe Cys Phe  
           1                  5                  10                  15  
 Val Ser Pro Leu Pro Lys Cys Ser Phe Gln Tyr Tyr Thr Arg Lys Arg  
                   20                  25                  30

Ser

<210> 3751  
 <211> 67  
 <212> PRT  
 <213> Homo sapiens

<220>



115

120

125

Phe Leu Gln Asp Ser Asp His Glu Asp Phe Leu Ser Ala Ile Gln Leu  
 130 135 140

<210> 3754  
 <211> 18  
 <212> PRT  
 <213> Homo sapiens

<400> 3754  
 Val Leu Cys Ser Leu Ser Cys Met Leu Lys Leu Gly Val Cys Trp Arg  
 1 5 10 15

Ala Ser

<210> 3755  
 <211> 96  
 <212> PRT  
 <213> Homo sapiens

<400> 3755  
 Met Glu Gly Thr Leu Trp Trp Pro Leu Arg Leu Ser Leu Phe Leu Ala  
 1 5 10 15

Gly Phe Pro Gly Ala Thr Trp Pro Ala Ala Val Gly Glu Val Leu Val  
 20 25 30

Gly Glu Cys Gln Ser Glu Pro Thr Gln Ala Thr Ser Trp Gln Trp Arg  
 35 40 45

His Ser His Pro Gly Gln Gly Gln Asp Leu Gly Ile Ser Ser Asp Leu  
 50 55 60

Ser Gly Gln Arg His Glu Val Arg Tyr Ala Leu Gly Ala Cys Ser Lys  
 65 70 75 80

Gly Asp Lys Glu Glu Gly Thr Ser Trp Trp Gly Val Glu Lys Asp Pro  
 85 90 95

<210> 3756  
 <211> 15  
 <212> PRT  
 <213> Homo sapiens

<400> 3756  
 Met Leu His Phe Cys Phe Ile Phe Tyr Phe Ser Leu Leu Cys Phe  
 1 5 10 15

<210> 3757  
 <211> 24  
 <212> PRT  
 <213> Homo sapiens

<400> 3757  
 Glu Lys Arg Arg Lys Lys Ala Arg Ser Thr Gly Asn Leu Gly Cys Gly  
     1                    5                    10                    15  
 Thr Met Ser Arg Arg Met Arg Thr  
                     20

<210> 3758  
 <211> 148  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (128)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 3758  
 Met Ala Lys Phe Arg Arg Arg Thr Cys Ile Ile Leu Ala Leu Phe Ile  
     1                    5                    10                    15  
 Leu Phe Ile Phe Ser Leu Met Met Gly Leu Lys Met Leu Arg Pro Asn  
                     20                    25                    30  
 Thr Ala Thr Phe Gly Ala Pro Phe Gly Leu Asp Leu Leu Pro Glu Leu  
                     35                    40                    45  
 His Gln Arg Thr Ile His Leu Gly Lys Asn Phe Asp Phe Gln Lys Ser  
     50                    55                    60  
 Asp Arg Ile Asn Ser Glu Thr Asn Thr Lys Asn Leu Lys Ser Val Glu  
     65                    70                    75                    80  
 Ile Thr Met Lys Pro Ser Lys Ala Ser Glu Leu Asn Leu Asp Glu Leu  
                     85                    90                    95  
 Pro Pro Leu Asn Asn Tyr Leu His Val Phe Tyr Tyr Ser Trp Tyr Gly  
                     100                    105                    110  
 Asn Pro Gln Phe Asp Gly Lys Tyr Ile His Trp Asn His Pro Val Xaa  
     115                    120                    125  
 Glu His Trp Asp Pro Arg Ile Ala Lys Asn Tyr Pro Gln Gly Arg His  
     130                    135                    140  
 Asn Pro Ser Arg  
 145

<210> 3759

<211> 14  
 <212> PRT  
 <213> Homo sapiens

<400> 3759  
 Met Pro Glu Ala His Gly Pro Ser Glu Gly Leu Trp Gly Thr  
 1 5 10

<210> 3760  
 <211> 36  
 <212> PRT  
 <213> Homo sapiens

<400> 3760  
 Met Tyr Ile Asn Ser Met Phe Ile Phe Phe Ser Ile Leu Ser Asp Thr  
 1 5 10 15  
 Val Leu Ala Ala Gly Leu Leu Lys Pro Ser Leu Val Val Ile Glu Ser  
 20 25 30  
 Phe Pro Leu Leu  
 35

<210> 3761  
 <211> 25  
 <212> PRT  
 <213> Homo sapiens

<400> 3761  
 Met Gly Leu His Leu Thr Phe Leu Val Ile Leu Val Asp Gln Met Pro  
 1 5 10 15  
 Leu Gly His Gln Ser Leu Leu Gln Asp  
 20 25

<210> 3762  
 <211> 377  
 <212> PRT  
 <213> Homo sapiens

<400> 3762  
 Met Gly Leu Asn Glu Glu Gln Lys Glu Phe Gln Lys Val Ala Phe Asp  
 1 5 10 15  
 Phe Ala Ala Arg Glu Met Ala Pro Asn Met Ala Glu Trp Asp Gln Lys  
 20 25 30  
 Glu Leu Phe Pro Val Asp Val Met Arg Lys Ala Ala Gln Leu Gly Phe  
 35 40 45  
 Gly Gly Val Tyr Ile Gln Thr Asp Val Gly Gly Ser Gly Leu Ser Arg  
 50 55 60  
 Leu Asp Thr Ser Val Ile Phe Glu Ala Leu Ala Thr Gly Cys Thr Ser  
 65 70 75 80





<211> 175  
 <212> PRT  
 <213> Homo sapiens

<400> 3763  
 Met Asp Leu Ala Gly Arg Lys Val Leu Leu Phe Val Ser Ala Ala Ile  
   1                  5                  10                  15  
 Met Phe Ala Ala Asn Leu Thr Leu Gly Leu Tyr Ile His Phe Gly Pro  
                   20                  25                  30  
 Arg Pro Leu Ser Pro Asn Ser Thr Ala Gly Leu Glu Ser Glu Ser Trp  
           35                  40                  45  
 Gly Asp Leu Ala Gln Pro Leu Ala Ala Pro Ala Gly Tyr Leu Thr Leu  
   50                  55                  60  
 Val Pro Leu Leu Ala Thr Met Leu Phe Ile Met Gly Tyr Ala Val Gly  
   65                  70                  75                  80  
 Trp Gly Pro Ile Thr Trp Leu Leu Met Ser Glu Val Leu Pro Leu Arg  
                   85                  90                  95  
 Ala Arg Gly Val Ala Ser Gly Leu Cys Val Leu Ala Ser Trp Leu Thr  
           100                  105                  110  
 Ala Phe Val Leu Thr Lys Ser Phe Leu Pro Val Val Ser Thr Phe Gly  
           115                  120                  125  
 Leu Gln Val Pro Phe Phe Phe Phe Ala Ala Ile Cys Leu Val Ser Leu  
   130                  135                  140  
 Val Phe Thr Gly Cys Cys Val Pro Glu Thr Lys Gly Arg Ser Leu Glu  
   145                  150                  155                  160  
 Gln Ile Glu Ser Phe Phe Arg Thr Gly Arg Arg Ser Phe Leu Arg  
           165                  170                  175

<210> 3764  
 <211> 31  
 <212> PRT  
 <213> Homo sapiens

<400> 3764  
 Met Trp Phe Met Ser Asn Ser Ala Val Leu Leu Trp Leu Trp Phe Lys  
   1                  5                  10                  15  
 Phe Leu Met Phe Lys Val Asp Ala Val Phe Arg Arg Ala Phe Tyr  
           20                  25                  30

<210> 3765  
 <211> 59  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE

<222> (37)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
 <400> 3765  
 Met Trp Ala Lys Val Pro Pro Pro His Lys Ala Leu Gly Ser Pro Arg  
 1 5 10 15  
 Ser Pro His Arg Gln Thr Trp Gly Ser Arg Pro Arg Val Gly Pro Arg  
 20 25 30  
 Glu Glu Gly Leu Xaa Val Gly Arg Gly Ile Thr Glu Trp Lys Glu Ile  
 35 40 45  
 Glu Gly Ala Glu Ser Ala Phe Ala Val Met Ser  
 50 55

<210> 3766  
 <211> 48  
 <212> PRT  
 <213> Homo sapiens  
 <400> 3766  
 Met Lys Ala Thr Arg His Trp Ala Pro Val Leu Leu Glu Trp Thr Phe  
 1 5 10 15  
 Cys Lys Arg Pro Cys His His Leu Pro Arg Lys Phe Pro Ser Val Val  
 20 25 30  
 Leu Cys Ile Ile Ile Tyr Lys Ile Thr Tyr Phe Asp Asp Gln Arg Ser  
 35 40 45

<210> 3767  
 <211> 11  
 <212> PRT  
 <213> Homo sapiens  
 <400> 3767  
 Met Arg Leu Leu Val Leu Phe Cys Phe Ile Asn  
 1 5 10

<210> 3768  
 <211> 417  
 <212> PRT  
 <213> Homo sapiens  
 <400> 3768  
 Asn Ser Arg Val Asp Pro Arg Val Arg Gly Glu Ile Pro Ile Ser Ser  
 1 5 10 15  
 Ser Gln Thr Asn Arg Ser Ser Phe Asp Leu Leu Pro Arg Glu Phe Arg  
 20 25 30

Leu	Val	Glu	Val	His	Asp	Pro	Pro	Leu	His	Gln	Pro	Ser	Ala	Asn	Lys
		35					40					45			
Pro	Lys	Pro	Pro	Thr	Met	Leu	Asp	Ile	Pro	Ser	Glu	Pro	Cys	Ser	Leu
	50					55					60				
Thr	Ile	His	Thr	Ile	Gln	Leu	Ile	Gln	His	Asn	Arg	Arg	Leu	Arg	Asn
	65				70					75					80
Leu	Ile	Ala	Thr	Ala	Gln	Ala	Gln	Asn	Gln	Gln	Gln	Thr	Glu	Gly	Val
				85					90					95	
Lys	Thr	Glu	Glu	Ser	Glu	Pro	Leu	Pro	Ser	Cys	Pro	Gly	Ser	Pro	Pro
			100					105					110		
Leu	Pro	Asp	Asp	Leu	Leu	Pro	Leu	Asp	Cys	Lys	Asn	Pro	Asn	Ala	Pro
		115					120					125			
Phe	Gln	Ile	Arg	His	Ser	Asp	Pro	Glu	Ser	Asp	Phe	Tyr	Arg	Gly	Lys
	130					135					140				
Gly	Glu	Pro	Val	Thr	Glu	Leu	Ser	Trp	His	Ser	Cys	Arg	Gln	Leu	Leu
	145				150					155					160
Tyr	Gln	Ala	Val	Ala	Thr	Ile	Leu	Ala	His	Ala	Gly	Phe	Asp	Cys	Ala
				165					170					175	
Asn	Glu	Ser	Val	Leu	Glu	Thr	Leu	Thr	Asp	Val	Ala	His	Glu	Tyr	Cys
			180					185					190		
Leu	Lys	Phe	Thr	Lys	Leu	Leu	Arg	Phe	Ala	Val	Asp	Arg	Glu	Ala	Arg
		195					200					205			
Leu	Gly	Gln	Thr	Pro	Phe	Pro	Leu	Asn	Gly	Lys	Glu	Gln	Gly	Phe	His
	210					215					220				
Glu	Val	Gly	Ile	Gly	Ser	Val	Leu	Ser	Leu	Gln	Lys	Phe	Trp	Gln	His
	225				230					235					240
Arg	Ile	Lys	Asp	Tyr	His	Ser	Tyr	Met	Leu	Gln	Ile	Ser	Lys	Gln	Leu
				245					250					255	
Ser	Glu	Glu	Tyr	Glu	Arg	Ile	Val	Asn	Pro	Glu	Lys	Ala	Thr	Glu	Asp
			260					265					270		
Ala	Lys	Pro	Val	Lys	Ile	Lys	Glu	Glu	Pro	Val	Ser	Asp	Ile	Thr	Phe
		275					280					285			
Pro	Val	Ser	Glu	Glu	Leu	Glu	Ala	Asp	Leu	Ala	Ser	Gly	Asp	Gln	Ser
	290					295					300				
Leu	Pro	Met	Gly	Val	Leu	Gly	Ala	Gln	Ser	Glu	Arg	Phe	Pro	Ser	Asn
	305				310					315					320
Leu	Glu	Val	Glu	Ala	Ser	Pro	Gln	Ala	Ser	Ser	Ala	Glu	Val	Asn	Ala
				325					330					335	
Ser	Pro	Leu	Trp	Asn	Leu	Ala	His	Val	Lys	Met	Glu	Pro	Gln	Glu	Ser
			340					345					350		
Glu	Glu	Gly	Asn	Val	Ser	Gly	His	Gly	Val	Leu	Gly	Ser	Asp	Val	Phe

365

Gly Ser Ser Pro Val Phe Asn Gln Arg Cys Lys Lys Arg Met Arg Lys  
405 410 415

Ile

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<210> 3769
<211> 38
<212> PRT
<213> Homo sapiens
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<400> 3769  
Met Leu Ser Gly Tyr Pro Leu Ser Phe Phe Leu Leu Thr Ile Cys Leu  
1 5 10 15

Val Val Leu Thr Ala Arg Gly Thr Glu Gly Leu Cys Pro Gly Ile Trp  
20 25 30

Arg Pro Ala Leu Phe Thr  
35

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<210> 3770
<211> 19
<212> PRT
<213> Homo sapiens
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<400> 3770  
Met Leu Leu Phe Leu Leu Leu Leu Leu Ser Ser Leu Leu Ala Leu  
1 5 10 15

Asn Asp Cys

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<210> 3771
<211> 30
<212> PRT
<213> Homo sapiens
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<400> 3771  
Met Gly Ala Pro Thr Arg Lys Cys Ser Val Gln Trp Leu Ser Leu Ser  
1 5 10 15

Val Pro Phe Leu Ser Ala Gln Cys Ser Ala Trp Arg Ser Ile  
20 25 30



[illegible]

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<220>
<221> SITE
<222> (40)
<223> Xaa equals any of the naturally occurring L-amino acids
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<210> 3777
<211> 25
<212> PRT
<213> Homo sapiens
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<210> 3778
<211> 38
<212> PRT
<213> Homo sapiens
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1870

005000.004004

<210> 3779  
<211> 39  
<212> PRT  
<213> Homo sapiens

<400> 3779  
Met Trp Ile Met Gly Leu Leu Tyr Ile Leu Val Phe Tyr Asn Phe Lys  
1 5 10 15  
Ile Ser Ile Asn Ser Gln Lys Trp Glu Arg Lys Arg Gln Gln Asp Phe  
20 25 30  
Gly Ser Trp Arg Gln Ile Tyr  
35

<210> 3780  
<211> 32  
<212> PRT  
<213> Homo sapiens

<400> 3780  
Met Gly Ala Gly Cys Val Ala Val Leu Leu Leu Gly Gln Ala Ala Gly  
1 5 10 15  
Glu Thr Val Phe Pro Trp Pro Cys Pro Val Gly Pro Ser Met Met Ser  
20 25 30

<210> 3781  
<211> 25  
<212> PRT  
<213> Homo sapiens

<400> 3781  
Met Leu Phe Phe Leu Cys Phe Cys Phe Leu Gln Leu Phe His Val Tyr  
1 5 10 15  
Lys Ala Asn Pro Phe Cys Ser Ala His  
20 25

<210> 3782  
<211> 45  
<212> PRT  
<213> Homo sapiens

<400> 3782  
Met Asp Ser Ile Leu Ile Phe Lys Trp Gln Lys Leu Gly Trp Gly Ala  
1 5 10 15  
Phe Lys Thr Cys Phe Leu Asn Cys Val Leu Thr Tyr Thr Ile Trp Cys  
20 25 30

Phe Ile Cys Leu Phe Phe Leu Thr Met Ser Arg Arg Pro  
 35 40 45

<210> 3783  
 <211> 42  
 <212> PRT  
 <213> Homo sapiens

<400> 3783  
 Met Gln Lys Phe Val Val Ile Met Tyr Leu Cys Leu Val Thr Ile Met  
 1 5 10 15

Phe Tyr Arg Pro Thr Leu Val Pro Gly His Tyr Cys Lys Met Leu Lys  
 20 25 30

Ser Gln Glu Asn Phe Thr Glu Leu Lys Lys  
 35 40

<210> 3784  
 <211> 29  
 <212> PRT  
 <213> Homo sapiens

<400> 3784  
 Met Val Ile His Tyr Phe Leu Leu Phe Leu Val Lys Ser Trp Cys Val  
 1 5 10 15

Met Glu Ser Thr Cys Ser Met Cys Val Cys Leu Cys Val  
 20 25

<210> 3785  
 <211> 40  
 <212> PRT  
 <213> Homo sapiens

<400> 3785  
 Met Leu Ala Val Phe Leu Arg Ile Lys Leu Arg Leu Ala Gly Thr Val  
 1 5 10 15

Lys Pro Lys Phe Leu Phe Val Ser Phe Leu Ala Pro Leu Ile Phe Leu  
 20 25 30

Asp Phe Glu Lys Phe Thr Val Trp  
 35 40

<210> 3786  
 <211> 102  
 <212> PRT  
 <213> Homo sapiens

<400> 3786  
 Met Gly Leu Arg Asn Ile Leu Lys Val Cys Cys Thr His Asp Ile Thr  
 1 5 10 15



Thr Ile Ser Ile Pro Leu Leu Leu Val His Asp Met Ser Glu Glu Met  
20 25 30

Thr Ile Pro Trp Cys Leu Arg Arg Ala Glu Leu Val Phe Lys Cys Val  
35 40 45

Lys Gly Phe Met Met Glu Met Ala Ser Trp Asp Gly Gly Ile Ser Arg  
50 55 60

Thr Val Gln Phe Leu Val Pro Gln Ser Ile Ser Glu Glu Met Phe Tyr  
65 70 75 80

Gln Leu Ser Asn Met Leu Pro Gln Ile Phe Arg Val Ser Ser Thr Leu  
85 90 95

Thr Leu Thr Ser Lys His  
100

<210> 3787

<211> 102

<212> PRT

<213> Homo sapiens

<400> 3787

Met Gly Leu Arg Asn Ile Leu Lys Val Cys Cys Thr His Asp Ile Thr  
1 5 10 15

Thr Ile Ser Ile Pro Leu Leu Leu Val His Asp Met Ser Glu Glu Met  
20 25 30

Thr Ile Pro Trp Cys Leu Arg Arg Ala Glu Leu Val Phe Lys Cys Val  
35 40 45

Lys Gly Phe Met Met Glu Met Ala Ser Trp Asp Gly Gly Ile Ser Arg  
50 55 60

Thr Val Gln Phe Leu Val Pro Gln Ser Ile Ser Glu Glu Met Phe Tyr  
65 70 75 80

Gln Leu Ser Asn Met Leu Pro Gln Ile Phe Arg Val Ser Ser Thr Leu  
85 90 95

Thr Leu Thr Ser Lys His  
100

<210> 3788

<211> 14

<212> PRT

<213> Homo sapiens

<400> 3788

Met Val Pro Ser Glu Ala Cys Pro Leu Val Cys Thr Leu Val  
1 5 10

<210> 3789  
 <211> 57  
 <212> PRT  
 <213> Homo sapiens

<400> 3789  
 Met Trp Arg Arg Asp Gln Ser Leu Leu Leu Val Ser Leu Gln Leu Pro  
   1                  5                  10                  15  
 Phe Ser Pro Val Ser Gly Thr Pro Arg Phe Met Pro Ala Val Gln Pro  
           20                  25                  30  
 Cys Gln Pro His Arg Leu Asn Thr Pro Ser Asn Ser Cys Ser Val Phe  
           35                  40                  45  
 Leu Gly Gly Gly Ala Pro Arg Gly Asn  
   50                  55

<210> 3790  
 <211> 122  
 <212> PRT  
 <213> Homo sapiens  
 <400> 3790  
 Val Ala Glu Tyr Arg Glu Trp Gly Arg Ala Arg Ala Gly Gly Arg Asp  
   1                  5                  10                  15  
 Gln Gly Leu Asp Pro Leu Ser Ser Phe Ser Leu Gly Arg Thr Gly Gln  
           20                  25                  30  
 Leu Pro Pro Thr Leu Thr Pro Leu Leu Pro Val Asn Gly Ala Val Arg  
           35                  40                  45  
 Glu Glu Ser Ile His Cys Lys Ser Val Glu Glu Ile Ser Thr Leu Val  
   50                  55                  60  
 Gln Lys Leu Ala Asp Gln Ser Gly Leu Asp Val Ile Arg Ile Arg Lys  
   65                  70                  75                  80  
 Pro Phe His Thr Asp Asn Pro Ser Ile Gln Gly Gln Trp His Pro Phe  
           85                  90                  95  
 Thr Asn Lys Pro Thr Thr Phe Arg Gly Leu Arg Pro Arg Glu Val Gln  
   100                  105                  110  
 Asp Pro Ala Pro Ala Gln Val Gln Ala Gln  
   115                  120

<210> 3791  
 <211> 65  
 <212> PRT  
 <213> Homo sapiens  
 <400> 3791  
 Met Leu Ser Leu Leu Ser Leu Cys Leu Leu Asn Pro Gln Ala Pro Val  
   1                  5                  10                  15



20

25

30

<210> 3795  
 <211> 38  
 <212> PRT  
 <213> Homo sapiens

<400> 3795  
 Met Leu Phe Phe Pro His Ser Pro Leu Asn Ile Val Leu Tyr Ala Leu  
           1                  5                  10                  15  
 Leu Asn Thr Phe Ser Phe Val Ser Gln Ala Ser Leu Trp Met Thr Pro  
                   20                  25                  30  
 Lys Tyr Asn Phe Phe His  
                   35

<210> 3796  
 <211> 46  
 <212> PRT  
 <213> Homo sapiens

<400> 3796  
 Ala Asp Gly Pro Cys Phe Gly Pro Ala Leu Phe Leu Thr Leu Ala Leu  
           1                  5                  10                  15  
 Thr Trp Glu Gly Leu Glu Gly Pro Ser His His Pro Arg Ser Pro Ser  
                   20                  25                  30  
 Ala Val Pro Phe Pro Cys Arg Leu Ala Ala Ala Ser Pro Ala  
                   35                  40                  45

<210> 3797  
 <211> 31  
 <212> PRT  
 <213> Homo sapiens

<400> 3797  
 Met Cys Val Cys Val Cys Val Cys Val Cys Val Cys Val His Arg Val  
           1                  5                  10                  15  
 Leu Pro Cys Val Val Phe Phe Trp Arg Leu Ser Leu Trp Ser Arg  
                   20                  25                  30

<210> 3798  
 <211> 32  
 <212> PRT  
 <213> Homo sapiens

<400> 3798  
 Met Arg Leu Ser Thr Trp Leu Thr Phe Asn Met Cys Ile Phe Thr Leu  
           1                  5                  10                  15

Cys Ile Phe Leu Thr Gly Leu Ser Arg Leu Asp Cys Ile His His Ile  
 20 25 30

<210> 3799  
 <211> 17  
 <212> PRT  
 <213> Homo sapiens

<400> 3799  
 Ala Ser Gln Thr Phe Ser Thr Glu Leu Trp Cys Phe Gly Leu Trp His  
 1 5 10 15

Thr

<210> 3800  
 <211> 33  
 <212> PRT  
 <213> Homo sapiens

<400> 3800  
 Met Lys Asp Arg Lys Gln Trp Ala Phe Lys Thr Arg Trp Pro Phe Phe  
 1 5 10 15

His Phe Leu Met Leu Ser Leu Ala Leu Asp Cys Tyr Arg Phe Leu Thr  
 20 25 30

Ser

<210> 3801  
 <211> 30  
 <212> PRT  
 <213> Homo sapiens

<400> 3801  
 Met Ala Ile Leu Leu Thr Phe Leu Val Tyr Val Ile Ile Thr Ser Ile  
 1 5 10 15

Gly Lys Gln Leu His Lys Lys Asn Leu Tyr Ile Phe Asn Phe  
 20 25 30

<210> 3802  
 <211> 15  
 <212> PRT  
 <213> Homo sapiens

<400> 3802  
 Met Arg Phe Leu Trp Cys Gln Pro Val Ala Ser Val Trp Gly Ser  
 1 5 10 15

<210> 3803  
 <211> 294  
 <212> PRT  
 <213> Homo sapiens

<400> 3803  
 Met Met Val Gln Met Ile Ser Asp Ala Asn Thr Ala Gly Asn Gly Phe  
   1                  5                  10                  15  
 Met Ala Met Phe Ser Ala Ala Glu Pro Asn Glu Arg Gly Asp Gln Tyr  
                   20                  25                  30  
 Cys Gly Gly Leu Leu Asp Arg Pro Ser Gly Ser Phe Lys Thr Pro Asn  
                   35                  40                  45  
 Trp Pro Asp Arg Asp Tyr Pro Ala Gly Val Thr Cys Val Trp His Ile  
   50                  55                  60  
 Val Ala Pro Lys Asn Gln Leu Ile Glu Leu Lys Phe Glu Lys Phe Asp  
   65                  70                  75                  80  
 Val Glu Arg Asp Asn Tyr Cys Arg Tyr Asp Tyr Val Ala Val Phe Asn  
                   85                  90                  95  
 Gly Gly Glu Val Asn Asp Ala Arg Arg Ile Gly Lys Tyr Cys Gly Asp  
                   100                  105                  110  
 Ser Pro Pro Ala Pro Ile Val Ser Glu Arg Asn Glu Leu Leu Ile Gln  
                   115                  120                  125  
 Phe Leu Ser Asp Leu Ser Leu Thr Ala Asp Gly Phe Ile Gly His Tyr  
   130                  135                  140  
 Ile Phe Arg Pro Lys Lys Leu Pro Thr Thr Thr Glu Gln Pro Val Thr  
   145                  150                  155                  160  
 Thr Thr Phe Pro Val Thr Thr Gly Leu Lys Pro Thr Val Ala Leu Cys  
                   165                  170                  175  
 Gln Gln Lys Cys Arg Arg Thr Gly Thr Leu Glu Gly Asn Tyr Cys Ser  
                   180                  185                  190  
 Ser Asp Phe Val Leu Ala Gly Thr Val Ile Thr Thr Ile Thr Arg Asp  
                   195                  200                  205  
 Gly Ser Leu His Ala Thr Val Ser Ile Ile Asn Ile Tyr Lys Glu Gly  
   210                  215                  220  
 Asn Leu Ala Ile Gln Gln Ala Gly Lys Asn Met Ser Ala Arg Leu Thr  
   225                  230                  235                  240  
 Val Val Cys Lys Gln Cys Pro Leu Leu Arg Arg Gly Leu Asn Tyr Ile  
                   245                  250                  255  
 Ile Met Gly Gln Val Gly Glu Asp Gly Arg Gly Lys Ile Met Pro Asn  
                   260                  265                  270  
 Ser Phe Ile Met Met Phe Lys Thr Lys Asn Gln Lys Leu Leu Asp Ala

275

280

285

Leu Lys Asn Lys Gln Cys  
290

&lt;210&gt; 3804

&lt;211&gt; 40

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3804

Met Phe Val Pro Tyr Leu Trp Val Phe Arg Ser Leu Ser Leu Ser Leu  
1 5 10 15

Phe Leu Phe Leu Ser Val Phe Ser Ile Ser His Leu His Leu Gly Ser  
20 25 30

Ile Leu Cys Ser Leu Ser Gln Asp  
35 40

&lt;210&gt; 3805

&lt;211&gt; 32

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3805

Met Ser Ile Lys Arg Gln Ser Val Leu Ala Thr Leu Ser Leu Gln Ile  
1 5 10 15

Val Ala Phe Pro Leu Gln Gln Gly Pro Arg Gly Asp Thr Gly Asn Leu  
20 25 30

&lt;210&gt; 3806

&lt;211&gt; 31

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3806

Met Gln Met Leu Arg Lys Leu Phe Thr Ala Ile Arg Ala Leu Phe Leu  
1 5 10 15

Ala Val Cys Val Leu Lys Val Ile Val Ser Leu Val Pro Trp Glu  
20 25 30

&lt;210&gt; 3807

&lt;211&gt; 37

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3807

Met Leu Thr His Ile Ser Phe Ala Ser Phe Ile Arg Leu Val Leu Thr  
 1 5 10 15

Leu Gly Gly Asp Ile Tyr Ser Gln Met Arg Ser Arg His Lys Val Lys  
 20 25 30

Asn Gly Thr Ile Tyr  
 35

<210> 3808  
 <211> 33  
 <212> PRT  
 <213> Homo sapiens

<400> 3808  
 Met Thr Ser Ala Phe Leu Phe Leu Phe Leu Asp Ser Val Leu Phe Thr  
 1 5 10 15  
 Trp Ala Cys Val Trp Leu Gly Asp Arg Gln Glu Cys Gln Lys Ala Gly  
 20 25 30

Arg

<210> 3809  
 <211> 26  
 <212> PRT  
 <213> Homo sapiens

<400> 3809  
 Val Asn Tyr Leu Phe Lys Ile Leu Thr Val His Tyr Val Pro Thr Met  
 1 5 10 15  
 Lys Pro Leu Ser Pro Lys Thr Gln Thr Asp  
 20 25

<210> 3810  
 <211> 21  
 <212> PRT  
 <213> Homo sapiens

<400> 3810  
 Met Ile Arg Thr Pro Asn Gln Ile Gln Lys Pro Val Leu Leu Tyr Leu  
 1 5 10 15  
 Leu His Trp Pro Ser  
 20

<210> 3811  
 <211> 55  
 <212> PRT  
 <213> Homo sapiens



055003.057504  
F09T50

<400> 3811  
Met Asp Leu Leu Phe Leu Asp Met Gly Leu Ser Ala Trp Gln Met Trp  
1 5 10 15  
Lys Leu Lys Phe Leu Val Pro Leu Gln Val Leu Ala Ser Gln Pro Cys  
20 25 30  
Arg Lys Val Val Tyr Arg Pro Phe Ile Leu Lys Leu Ile Thr Cys Pro  
35 40 45  
Trp Trp Thr Phe Leu Trp Trp  
50 55

<210> 3812  
<211> 12  
<212> PRT  
<213> Homo sapiens

<400> 3812  
Asp Ser Thr Leu Leu Ile Phe Leu Ile Ile Thr Leu  
1 5 10

<210> 3813  
<211> 25  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (7)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 3813  
Leu Asn Thr Ser Asp Phe Xaa Phe Val Tyr Cys Phe Ser Leu Ser Phe  
1 5 10 15  
Ser Ser Leu Ser Lys Gln Leu Leu Asp  
20 25

<210> 3814  
<211> 37  
<212> PRT  
<213> Homo sapiens

<400> 3814  
Met Asn Lys Gln Lys Arg Lys Gln Gly Thr Cys Val Ser Leu Ser Leu  
1 5 10 15  
Leu Phe Cys Leu Ser Leu Cys Pro Leu Ser Tyr Val Ser His Ala Val  
20 25 30  
Ser Cys Pro Cys Phe  
35

<210> 3815  
 <211> 23  
 <212> PRT  
 <213> Homo sapiens

<400> 3815  
 Met Leu Leu Cys Ile Leu Ile Val Cys Ile Tyr Ser Ala Tyr Val Ala  
           1                  5                  10                  15  
 Cys Leu Gln Asn Tyr Ile Lys  
                   20

<210> 3816  
 <211> 18  
 <212> PRT  
 <213> Homo sapiens

<400> 3816  
 Met Pro Phe Arg Trp Ala Ala Ser Leu Ala Thr Trp Phe Gln Gly Ala  
           1                  5                  10                  15  
 Val Leu

<210> 3817  
 <211> 383  
 <212> PRT  
 <213> Homo sapiens

<400> 3817  
 Leu Leu Leu Tyr Ala Pro Val Gly Phe Cys Leu Leu Val Leu Arg Leu  
           1                  5                  10                  15  
 Phe Leu Gly Ile His Val Phe Leu Val Ser Cys Ala Leu Pro Asp Ser  
                   20                  25                  30  
 Val Leu Arg Arg Phe Val Val Arg Thr Met Cys Ala Val Leu Gly Leu  
                   35                  40                  45  
 Val Ala Arg Gln Glu Asp Ser Gly Leu Arg Asp His Ser Val Arg Val  
           50                  55                  60  
 Leu Ile Ser Asn His Val Thr Pro Phe Asp His Asn Ile Val Asn Leu  
           65                  70                  75                  80  
 Leu Thr Thr Cys Ser Thr Pro Leu Leu Asn Ser Pro Pro Ser Phe Val  
                   85                  90                  95  
 Cys Trp Ser Arg Gly Phe Met Glu Met Asn Gly Arg Gly Glu Leu Val  
                   100                  105                  110  
 Glu Ser Leu Lys Arg Phe Cys Ala Ser Thr Arg Leu Pro Pro Thr Pro  
           115                  120                  125  
 Leu Leu Leu Phe Pro Glu Glu Glu Ala Thr Asn Gly Arg Glu Gly Leu  
           130                  135                  140



<400> 3821															
Tyr	Trp	Ala	Leu	Leu	Arg	Thr	Leu	Leu	Ala	Leu	Ala	Ala	Phe	Ser	Thr
1				5					10					15	
Ala	Ile	Ala	Ala	Leu	Lys	Leu	Trp	Asn	Glu	Asp	Phe	Arg	Tyr	Gly	Tyr
			20					25					30		
Ser	Tyr	Tyr	Asn	Ser	Ala	Cys	Arg	Ile	Ser	Ser	Ser	Ser	Asp	Trp	Asn
		35					40						45		
Thr	Pro	Ala	Pro	Thr	Gln	Ser	Pro	Glu	Glu	Val	Arg	Arg	Leu	His	Leu
	50					55					60				
Cys	Thr	Ser	Phe	Met	Asp	Met	Leu	Lys	Ala	Leu	Phe	Arg	Thr	Leu	Gln
65					70					75					80
Ala	Met	Leu	Leu	Gly	Val	Trp	Ile	Leu	Leu	Leu	Leu	Ala	Ser	Leu	Ala
				85					90					95	
Pro	Leu	Trp	Leu	Tyr	Cys	Trp	Arg	Met	Phe	Pro	Thr	Lys	Gly	Lys	Arg
			100					105					110		

Asp Gln Lys Glu Met Leu Glu Val Ser Gly Ile  
 115 120

<210> 3822  
 <211> 40  
 <212> PRT  
 <213> Homo sapiens

<400> 3822  
 Met Cys Ser His Pro Leu Ala Ser Arg Ala Leu Phe Pro Gly Ile Leu  
 1 5 10 15

Val Lys Val Val Ser Cys Ile Pro Leu Pro Phe Tyr Leu Gly Phe Asp  
 20 25 30

Ile Gly Lys Val Tyr Leu Lys Thr  
 35 40

<210> 3823  
 <211> 74  
 <212> PRT  
 <213> Homo sapiens

<400> 3823  
 Met Phe Met Lys Val Ser Arg Pro His Pro Ser Asp Tyr Pro Leu Leu  
 1 5 10 15

Ile Leu Phe Val Val Gly Gly Val Thr Val Ser Glu Val Lys Met Val  
 20 25 30

Lys Asp Leu Val Ala Ser Leu Lys Pro Gly Thr Gln Val Ile Val Leu  
 35 40 45

Ser Thr Arg Leu Leu Lys Pro Leu Asn Ile Pro Glu Leu Leu Phe Ala  
 50 55 60

Thr Asp Arg Leu His Pro Asp Leu Gly Phe  
 65 70

<210> 3824  
 <211> 43  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (41)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 3824  
 Met Ser His His Ala Trp Leu Ser Val Leu Phe Ser Val Ser Val Pro  
 1 5 10 15

Ser Val Ser Ser Ala Tyr Met Phe Ser Ile Leu Ser Cys Ser Phe Ser

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20

25

30

Ser Val Pro Thr Arg Tyr Phe Trp Xaa Lys Asn  
 35 40

<210> 3825  
 <211> 67  
 <212> PRT  
 <213> Homo sapiens

<400> 3825  
 Met Thr Lys Val Pro Ser Cys Phe Leu Leu Pro Val Leu Leu Leu Gly  
 1 5 10 15  
 Arg Lys Arg Gly Leu Met Arg Leu His Ser Gly Ala His Ile Thr Arg  
 20 25 30  
 Cys Ile Cys Arg His Arg Ala Gly Cys Leu Gln Pro Gly Glu Gly Gln  
 35 40 45  
 Arg Glu Gly Val Tyr Glu Cys Glu Cys Val Cys Met Glu Val Gly Ala  
 50 55 60  
 Leu Gly Val  
 65

<210> 3826  
 <211> 67  
 <212> PRT  
 <213> Homo sapiens

<400> 3826  
 Met Thr Lys Val Pro Ser Cys Phe Leu Leu Pro Val Leu Leu Leu Gly  
 1 5 10 15  
 Arg Lys Arg Gly Leu Met Arg Leu His Ser Gly Ala His Ile Thr Arg  
 20 25 30  
 Cys Ile Cys Arg His Arg Ala Gly Cys Leu Gln Pro Gly Glu Gly Gln  
 35 40 45  
 Arg Glu Gly Val Tyr Glu Cys Glu Cys Val Cys Met Glu Val Gly Ala  
 50 55 60  
 Leu Gly Val  
 65

<210> 3827  
 <211> 129  
 <212> PRT  
 <213> Homo sapiens

<400> 3827  
 Met Glu Ser Cys Ala Phe Lys Ala Ala Leu Ala Cys Val Gly Gly Phe  
 1 5 10 15







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1 5 10 15  
Ser Ser Ile Leu Leu Leu Thr Phe Ala Ser Ile Phe Leu Ser Ser Phe  
20 25 30  
Pro Ala Phe Ser Tyr Phe Asn Gln Ile Val Leu Thr Ile Ser Leu His  
35 40 45  
His Val Phe  
50

<210> 3834  
<211> 44  
<212> PRT  
<213> Homo sapiens

<400> 3834  
Met Arg Gln Asn Phe Val Ala Gln Phe Val Gln Leu Leu Lys Cys Trp  
1 5 10 15  
Leu Cys Asp Val Trp Ser Gly Val Val Val Glu Lys Asn Trp Ala Pro  
20 25 30  
Ser Val Asp Gln Cys Gln Leu Gln Val Leu Gln Phe  
35 40

<210> 3835  
<211> 45  
<212> PRT  
<213> Homo sapiens

<400> 3835  
Met Ser Leu Leu Val Met Ser Leu Cys Tyr Phe Leu Gly Glu Leu Phe  
1 5 10 15  
Glu Leu Ser Ala Phe Asn Leu Pro Phe Val His Arg Ala Arg Pro Pro  
20 25 30  
Val Thr Thr Val Glu Ala Gly Gly Glu Leu Leu Tyr Pro  
35 40 45

<210> 3836  
<211> 40  
<212> PRT  
<213> Homo sapiens

<400> 3836  
Met Cys Leu His Leu Leu Leu Ala Ile Ser Gly Ile Leu Asn Leu His  
1 5 10 15  
Cys His Leu Val Leu Cys Ser Cys Gly Arg Tyr Thr Gln Lys Thr Gln  
20 25 30  
Ala Asn Thr Thr Trp Val Thr Ser  
35 40

<210> 3837  
 <211> 40  
 <212> PRT  
 <213> Homo sapiens

<400> 3837  
 Met Cys Leu His Leu Leu Leu Ala Ile Ser Gly Ile Leu Asn Leu His  
   1                  5                  10                  15  
 Cys His Leu Val Leu Cys Ser Cys Gly Arg Tyr Thr Gln Lys Thr Gln  
                   20                  25                  30  
 Ala Asn Thr Thr Trp Val Thr Ser  
           35                  40

<210> 3838  
 <211> 343  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (184)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (198)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (210)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (300)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (307)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 3838  
 Met Tyr Ile Ser Pro Glu Glu Phe Lys Pro Ile Ala Glu Lys Leu Thr  
   1                  5                  10                  15  
 Gly Ser Thr Pro Ala Ala Ser Tyr Glu Glu Glu Leu Pro Pro Asp  
                   20                  25                  30  
 Pro Ser Glu Glu Thr Leu Thr Ile Glu Ala Arg Phe Gln Pro Leu Leu  
           35                  40                  45  
 Pro Glu Thr Met Thr Lys Ser Lys Asp Gly Phe Leu Gly Val Ser Arg

60

Table 1. Demographic characteristics of the study population	
Age (years)	Mean (SD)
Male	55.2 (10.5)
Female	58.1 (11.2)
Marital status	
Married	72.5%
Single	27.5%
Education level	
High school or above	65.0%
Below high school	35.0%
Occupation	
White collar	45.0%
Blue collar	55.0%
Income (USD/month)	
< 1000	15.0%
1000-2000	35.0%
2000-3000	25.0%
> 3000	25.0%
Health insurance	
Yes	85.0%
No	15.0%
Comorbidities	
Hypertension	40.0%
Diabetes	20.0%
Cholesterol	30.0%
Smoking status	
Current smoker	10.0%
Former smoker	20.0%
Non-smoker	70.0%
Alcohol consumption	
Regular	15.0%
Occasional	25.0%
Never	60.0%

1891

<213> Homo sapiens

<400> 3839

Met Thr Phe Gly Glu Tyr Val Ala Leu Ile Phe Phe Thr Leu Ile Ile  
1 5 10 15  
Phe Leu Ser Ser Arg Gln Pro Ile Ala Pro Trp Arg Pro His Gln Pro  
20 25 30  
Cys Lys Phe Ser Pro Ala Ala Trp Arg Leu Gly Arg Gly Ala Ala Val  
35 40 45  
Thr Arg Arg Tyr Thr Arg Leu  
50 55

<210> 3840

<211> 52

<212> PRT

<213> Homo sapiens

<400> 3840

Met Thr Leu His Val Ser Arg Leu Trp Cys Cys Cys Pro Lys Lys Gly  
1 5 10 15  
Gln Ala Trp Ser Ala Tyr Gly Ala Leu Leu Trp Cys Tyr Leu Ala Pro  
20 25 30  
Val Ser Leu Glu Ser Glu Glu Val Trp Pro Leu Lys Ile Lys Leu Pro  
35 40 45  
Pro Glu Leu Leu  
50

<210> 3841

<211> 51

<212> PRT

<213> Homo sapiens

<400> 3841

Met Tyr Phe Pro Cys Arg Trp Leu Leu Pro Ser Val Leu Gly Tyr Leu  
1 5 10 15  
Ala Met Glu Leu Leu Arg Gln Ser Leu Pro Arg Trp Arg Ser Ser Gln  
20 25 30  
Cys Leu His Leu Pro Ile Arg Asn Thr Arg Cys Leu Pro Trp Cys Lys  
35 40 45  
Val Pro Arg  
50

<210> 3842

<211> 16

<212> PRT

<213> Homo sapiens

<400> 3842

Met Leu Leu Gly Asn Leu Ile Ala Thr Met Gln Ala Thr Gly Asn Leu  
1 5 10 15

<210> 3843

<211> 48

<212> PRT

<213> Homo sapiens

<400> 3843

Met Phe Trp Glu Val Leu Phe Ile Val Cys Phe Pro Thr Phe Ala Leu  
1 5 10 15

Ile Thr Arg Leu Ser Ser Leu Ile Ile Glu Thr Met Ser Leu Tyr Leu  
20 25 30

Val Pro Ser Ile Val Pro Ser Thr Gln Cys Met His Ser Leu Leu Val  
35 40 45

<210> 3844

<211> 10

<212> PRT

<213> Homo sapiens

<400> 3844

Met Arg Leu Phe Val Leu Leu Leu Met Thr  
1 5 10

<210> 3845

<211> 1

<212> PRT

<213> Homo sapiens

<400> 3845

Ile  
1

<210> 3846

<211> 32

<212> PRT

<213> Homo sapiens

<400> 3846

Met Gly Gly Ile Gln Tyr Cys Met Trp Gly His Pro Gly Trp Gly Gly  
1 5 10 15

Asp Ala Trp His Pro Ser Leu His Ser Pro Ala Arg Pro Gly Gly Val  
 20 25 30

<210> 3847  
 <211> 21  
 <212> PRT  
 <213> Homo sapiens

<400> 3847  
 Met Val Ile Ile Glu Met Leu Leu Lys Ile Leu Trp Val Val Phe Trp  
 1 5 10 15

Ala Gly Tyr Pro Cys  
 20

<210> 3848  
 <211> 7  
 <212> PRT  
 <213> Homo sapiens

<400> 3848  
 Asp Val His Met Arg Ser Arg  
 1 5

<210> 3849  
 <211> 38  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (14)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 3849  
 Met Arg Ser Pro Leu Ser Ala Ser Ala Leu Leu Leu Trp Xaa Ser Ser  
 1 5 10 15

Val Ala Arg Ala Phe Ser Ser Pro Ser Leu Leu Met Ala Val Pro Ser  
 20 25 30

Pro Thr Cys Ser Arg Tyr  
 35

<210> 3850  
 <211> 38  
 <212> PRT  
 <213> Homo sapiens

<220>



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<223> Xaa equals any of the naturally occurring L-amino acids

<400> 3852

Met Arg Ser Pro Leu Ser Ala Ser Ala Leu Leu Trp Xaa Ser Ser  
1 5 10 15

Val Ala Arg Ala Phe Ser Ser Pro Ser Leu Leu Met Ala Val Pro Ser  
20 25 30

Pro Xaa Cys Ser Arg Tyr  
35

<210> 3853

<211> 41

<212> PRT

<213> Homo sapiens

<400> 3853

Ile Ser Ser Leu Val Gly Asn Leu Ala Thr Ile Gln Lys Phe Lys Ile  
1 5 10 15

Tyr Cys Gln Pro Ser Arg Phe Trp Asn Thr Ser Pro Ser Ile Arg Thr  
20 25 30

Gly Trp Arg Pro Val Asp Thr Pro Lys  
35 40

<210> 3854

<211> 15

<212> PRT

<213> Homo sapiens

<400> 3854

Met Thr Ala Trp Tyr Ile Trp Val Thr Cys Val Gly Ser Leu Leu  
1 5 10 15

<210> 3855

<211> 60

<212> PRT

<213> Homo sapiens

<400> 3855

Met Ala Val Leu Leu Leu Leu Ala Leu Leu Thr Ala Ala Leu Ile Leu  
1 5 10 15

Tyr Arg Arg Arg Gln Ser Ile Glu Arg Gly Ala Phe Glu Gly Ala Arg  
20 25 30

Tyr Ser Arg Ser Ser Ser Ser Pro Thr Glu Ala Thr Glu Lys Asn Ile  
35 40 45

Leu Val Ser Asp Met Glu Met Asn Glu Gln Gln Glu  
50 55 60



<210> 3856  
 <211> 61  
 <212> PRT  
 <213> Homo sapiens

<400> 3856  
 Met Asn Tyr Arg Cys Leu Thr Phe Lys Ile Tyr Phe Val Leu Leu Ile  
 1 5 10 15  
 Ser Ser His Cys Val Asn Thr Gly Ser Cys Arg Ser Leu Leu Gly Arg  
 20 25 30  
 Asn Lys Phe Ile Tyr Phe Leu Arg Gly Ser Ser Gly Val Leu Ile Arg  
 35 40 45  
 Pro Leu Leu Cys Leu Gly Gly Ala Leu Val Leu Leu Ala  
 50 55 60

<210> 3857  
 <211> 17  
 <212> PRT  
 <213> Homo sapiens

<400> 3857  
 Met Gly Phe Val Val Leu Leu Leu Cys Gln Val Pro Leu Gly Gln Leu  
 1 5 10 15  
 Gly

<210> 3858  
 <211> 146  
 <212> PRT  
 <213> Homo sapiens

<400> 3858  
 Met Val Val Trp Tyr Leu Phe Gln Ile Val Ser Ala Val Ser Cys Ile  
 1 5 10 15  
 His Lys Ala Gly Ile Leu His Arg Asp Ile Lys Thr Leu Asn Ile Phe  
 20 25 30  
 Leu Thr Lys Ala Asn Leu Ile Lys Leu Gly Asp Tyr Gly Leu Ala Lys  
 35 40 45  
 Lys Leu Asn Ser Glu Tyr Ser Met Ala Glu Thr Leu Val Gly Thr Pro  
 50 55 60  
 Tyr Tyr Met Ser Pro Glu Leu Cys Gln Gly Val Lys Tyr Asn Phe Lys  
 65 70 75 80  
 Ser Asp Ile Trp Ala Val Gly Cys Val Ile Phe Glu Leu Leu Thr Leu  
 85 90 95  
 Lys Arg Thr Phe Asp Ala Thr Asn Pro Leu Asn Leu Cys Val Lys Ile  
 100 105 110

Val Gln Gly Ile Arg Ala Met Glu Val Asp Ser Ser Gln Tyr Ser Leu  
 115 120 125

Glu Leu Ile Gln Met Val His Ser Cys Leu Asp Gln Val Gln Glu Pro  
 130 135 140

Leu Pro  
 145

<210> 3859  
 <211> 54  
 <212> PRT  
 <213> Homo sapiens

<400> 3859  
 Met Leu Ala Phe Ile Cys Ser Ile Ser Ser Leu Leu Gly Cys Phe Trp  
 1 5 10 15

Gly Ile Thr Cys Leu Ser Ser Lys Leu Glu Thr Ser Asn Ser Pro Gly  
 20 25 30

Asp Ala Val Ala Leu Phe Val Gly Gln Trp His Leu Leu Val Val Cys  
 35 40 45

Asn Val Tyr Ser Leu Val  
 50

<210> 3860  
 <211> 26  
 <212> PRT  
 <213> Homo sapiens

<400> 3860  
 Met Tyr Gln Tyr Tyr Ile Pro Leu His Cys Leu Ile Ile Ile Ile Ile  
 1 5 10 15

Ile Val His Cys Met Gly Ile Pro Arg Leu  
 20 25

<210> 3861  
 <211> 31  
 <212> PRT  
 <213> Homo sapiens

<400> 3861  
 Met Ala Arg Ala Ala Thr Gly Ala Gly Lys Ala Thr Trp Thr Leu Phe  
 1 5 10 15

Cys Trp Leu Met Ala Pro Arg Ala Cys Val His Lys Thr Ser Ser  
 20 25 30

<210> 3862

<211> 23  
<212> PRT  
<213> Homo sapiens

<400> 3862  
Met Gly Leu Phe Leu Leu Phe Leu Leu Arg Val Gly Val Gly Cys Val  
1 5 10 15  
Ile Cys Lys Tyr Phe Cys Ala  
20

<210> 3863  
<211> 62  
<212> PRT  
<213> Homo sapiens

<400> 3863  
Leu Glu Cys Trp Lys Asp Met Ile Arg Ala Ala Cys Ser Ser Gln Lys  
1 5 10 15  
Ser Val Ser Thr Ile Lys Trp Met Pro Asn His Gln Thr His Lys Cys  
20 25 30  
Ser Arg Cys Val Pro Gly Tyr Gly Ile Ser Arg Tyr Lys Lys Tyr Phe  
35 40 45  
Asn Tyr Ser Phe Val Ile Asn Ile Thr Tyr Glu Lys Lys Ile  
50 55 60

<210> 3864  
<211> 26  
<212> PRT  
<213> Homo sapiens

<400> 3864  
Met Tyr Ile Leu Phe Leu Ser Ser Val Leu Ile Met Gly Ala Phe Leu  
1 5 10 15  
Lys Leu Ile Ser Tyr Phe Pro Ile Tyr Ile  
20 25

<210> 3865  
<211> 37  
<212> PRT  
<213> Homo sapiens

<400> 3865  
Met Leu Leu Ala Tyr His Ile Phe Ile Ser Val Ser Ile Cys Arg Leu  
1 5 10 15  
Leu Gly Pro Gly Asn Asp Ser Gly Glu Phe Pro Ser Leu Val Ser Gly  
20 25 30  
Ile Tyr Ser His Leu  
35

<210> 3866  
<211> 43  
<212> PRT  
<213> Homo sapiens

<400> 3866  
Met Ser Thr Leu Phe Thr Trp Leu Met Val Leu Arg Tyr Leu Leu Pro  
1 5 10 15  
Asn Ser Cys Phe Val Leu Asn Arg Pro Ser Phe Cys Asn Pro Phe Gly  
20 25 30  
Thr Ser Pro Ile Ser Cys Arg Lys Ala Ser Ser  
35 40

<210> 3867  
<211> 70  
<212> PRT  
<213> Homo sapiens

<400> 3867  
Met Pro Asn Gly His Trp His Trp Ala Cys Leu Cys His Trp Gly Ser  
1 5 10 15  
Thr Gln Ala Val Ser Ile Cys Ala Thr Leu Ala Phe Pro Ser Arg Ser  
20 25 30  
Ser Arg Arg Trp Ala Ser Thr Thr Thr Arg Pro Leu Ala Ala Ser Leu  
35 40 45  
Leu Ser His Cys Thr Leu Leu Arg Gly Phe Leu Arg Arg Gln Asp Ser  
50 55 60  
Ala Val Pro Cys Cys Ser  
65 70

<210> 3868  
<211> 33  
<212> PRT  
<213> Homo sapiens

<400> 3868  
Met Thr Ser Ile Thr Ser His Val Leu Val Thr Val Leu Leu Ile Ile  
1 5 10 15  
Ser Leu Ser Thr Gln Thr Leu Glu Thr Val Ser Leu Thr Arg Ser Arg  
20 25 30  
Glu

<210> 3869

<211> 23  
 <212> PRT  
 <213> Homo sapiens

<400> 3869  
 Met Ala Cys Ile Leu Phe Leu Asn Ala Phe Leu Leu Ile Pro Ile Leu  
     1                    5                    10                    15  
 Leu Gly Ile Trp Thr Phe Tyr  
                     20

<210> 3870  
 <211> 58  
 <212> PRT  
 <213> Homo sapiens

<400> 3870  
 Met Lys Ser Phe Gln Ile Pro Leu Phe Phe Phe Pro Asn Gly Phe His  
     1                    5                    10                    15  
 Met Cys Leu Lys Tyr Leu Tyr Phe Glu Leu Ser Asp Phe Pro Cys Pro  
                     20                    25                    30  
 Pro Phe Ser Phe Val Pro Ser Leu Ser Gln His Gln Ser Arg Ile Gln  
                     35                    40                    45  
 Asn Leu Pro Val Lys Gly Gln Pro Ser Phe  
     50                    55

<210> 3871  
 <211> 28  
 <212> PRT  
 <213> Homo sapiens

<400> 3871  
 Met Leu Val Gly Ala Ala Leu Pro Leu Val Pro Gly Val Ala Ser Ala  
     1                    5                    10                    15  
 Gln Ser Gln Arg Ala Gly Ser Arg Val Leu His Arg  
                     20                    25

<210> 3872  
 <211> 32  
 <212> PRT  
 <213> Homo sapiens

<400> 3872  
 Met Ser Asn Ala Glu Leu Ala Leu Leu Leu Phe Ile Ile Leu Thr Val  
     1                    5                    10                    15  
 Gly His Tyr Ala Val Val Trp Ser Ile Tyr Leu Gly Lys Thr Thr Gly  
                     20                    25                    30

<210> 3873  
 <211> 46  
 <212> PRT  
 <213> Homo sapiens

<400> 3873  
 Met Val Ser Gly Leu Ile Lys His Ser Asn Trp Leu Cys Phe Thr Leu  
           1                  5                  10                  15  
 Ala Leu Val His Ala Lys Cys Ser Ile Ser Phe Ser Leu Leu His Cys  
                   20                  25                  30  
 Ser Phe Ala Met Leu Leu Cys Ser Gly Leu Asp Val Ile Phe  
                   35                  40                  45

<210> 3874  
 <211> 24  
 <212> PRT  
 <213> Homo sapiens

<400> 3874  
 Met Trp Phe Leu Ser Leu Leu Leu Ser Phe Ile Cys Phe Leu Ile Ser  
           1                  5                  10                  15  
 Ala Glu Tyr Glu Ile Cys Leu Phe  
                   20

<210> 3875  
 <211> 32  
 <212> PRT  
 <213> Homo sapiens

<400> 3875  
 Met Ala Ala Pro Gly Trp Pro Gly Pro Arg Ser Ala Ser Val Val Ala  
           1                  5                  10                  15  
 Leu Thr Phe Asp Lys Ser Phe Pro Cys Leu Cys Leu Gly Cys Pro Ile  
                   20                  25                  30

<210> 3876  
 <211> 55  
 <212> PRT  
 <213> Homo sapiens

<400> 3876  
 Gly Leu Pro Phe Cys Leu Val Leu Ala Cys Ile Leu Pro Cys Tyr His  
           1                  5                  10                  15  
 Leu Leu Leu Phe Leu Pro Arg Trp Phe Val Lys Asn Lys Ser Pro Gly

20

25

30

Cys Met Cys Pro Leu Ile His Ser Val Trp Ala Lys Glu Asn Glu Ala  
 35 40 45

Leu Met Val Thr Trp Cys Phe  
 50 55

<210> 3877  
 <211> 9  
 <212> PRT  
 <213> Homo sapiens

<400> 3877  
 Met Tyr Cys Leu Ser Ala Ile Leu Ile  
 1 5

<210> 3878  
 <211> 50  
 <212> PRT  
 <213> Homo sapiens

<400> 3878  
 Met Ala Leu Ser His Leu Leu Leu His Ser Arg Pro Leu Leu Glu Val  
 1 5 10 15

Cys Leu Ser His Val Leu Leu Ser Pro His Glu Arg Pro Leu Leu Leu  
 20 25 30

Phe Pro Cys Leu Leu Ser Gly Leu Ser Gly Ala Val Leu Arg Val Leu  
 35 40 45

Leu Gly  
 50

<210> 3879  
 <211> 34  
 <212> PRT  
 <213> Homo sapiens

<400> 3879  
 Phe Cys Thr Val Cys Leu Leu Thr Phe Ile Glu His Ile Leu Pro Ser  
 1 5 10 15

Ser Ile Arg Ile Thr His Leu Met Val Arg Lys Ser Cys Trp Glu Tyr  
 20 25 30

Asp Ser

<210> 3880  
 <211> 57  
 <212> PRT

<213> Homo sapiens

<400> 3880

Met Ala Ala Ile Trp His Phe Ala Phe Cys Thr Tyr Leu Asp Val Leu  
1 5 10 15  
Asp Ile Ser Pro Arg Pro Leu Ile Asp Asn Cys Pro Gly Val Phe Leu  
20 25 30  
Ala Ala Glu Met Met Trp Thr Glu Phe Ile Trp Pro Ile Pro Arg Gln  
35 40 45  
Trp Pro Leu Arg Leu Phe Pro Lys Phe  
50 55

<210> 3881

<211> 72

<212> PRT

<213> Homo sapiens

<400> 3881

Met Arg Ala Gly Thr Phe Asp Trp Phe Ala Val Ala Cys Gln Glu Leu  
1 5 10 15  
Tyr Leu Leu Arg Ala Gln Met Thr Glu Ser Val Gln Pro Ser Val Ile  
20 25 30  
His Leu Phe Ser Leu Phe Leu Phe Pro Tyr Arg Val Cys Glu Pro Leu  
35 40 45  
Leu Thr Lys Tyr Gln Ser Gly Pro Ser Pro Ala His Val Lys Glu Glu  
50 55 60  
Gly Ala Val Gly Leu Arg Pro His  
65 70

<210> 3882

<211> 15

<212> PRT

<213> Homo sapiens

<400> 3882

Met Thr Thr Val Ser Pro Ile Pro Ile Ser Cys Leu Phe Ala Ala  
1 5 10 15

<210> 3883

<211> 23

<212> PRT

<213> Homo sapiens

<400> 3883

Met Leu Val Gly Val Val Asp Val Ser Cys Leu Leu Trp Pro Ser Leu  
1 5 10 15  
Pro Leu Leu Pro Glu Asn Thr



<210> 3884  
 <211> 59  
 <212> PRT  
 <213> Homo sapiens

<400> 3884  
 Thr Leu Ala Gln Glu His Arg Ser Arg Gly Leu Ala Trp Ser Thr Arg  
           1                  5                  10                  15  
 Pro Pro Leu Cys Lys Ala Pro Glu Gly Pro Arg Gly Cys Gly Leu Ile  
                   20                  25                  30  
 Arg Arg Leu His Leu Trp Thr Gly Leu His Thr Arg Ser Tyr Arg Thr  
           35                  40                  45  
 Ala Ile Cys Leu Pro Cys Arg Gly Arg Trp Pro  
           50                  55

<210> 3885  
 <211> 86  
 <212> PRT  
 <213> Homo sapiens

<400> 3885  
 Met Gln Ser Arg Glu Pro Pro Pro Val Cys Phe Met Ala Met Val Leu  
           1                  5                  10                  15  
 Ser Ala Cys Val Phe Ser Phe Phe Leu Asn Arg Leu Phe Ser Gly Ser  
                   20                  25                  30  
 Leu Ile Ser Leu Ser Ala Ser Arg Ser Leu Phe Cys Leu Gly Cys Phe  
           35                  40                  45  
 Ser Pro Ala Val Pro Ser Thr Arg Phe Pro Gly Ser Cys Pro Pro Arg  
           50                  55                  60  
 Ala Leu Pro Gln Gly Ser Thr Thr Pro Arg Cys Ser Pro Thr Ala Leu  
           65                  70                  75                  80  
 Ser Gly Arg Pro Pro Val  
                   85

<210> 3886  
 <211> 19  
 <212> PRT  
 <213> Homo sapiens

<400> 3886  
 Met Leu His Cys Phe Lys Lys Lys Lys Met Leu Met Ile Val Leu Gly  
           1                  5                  10                  15  
 Leu Gln Ala

<210> 3887  
 <211> 33  
 <212> PRT  
 <213> Homo sapiens

<400> 3887  
 Met Met Leu Ala Leu Phe Ile Val Leu Leu Leu Ile Pro Pro Arg Gln  
 1 5 10 15

Asn Glu Asn Gln Met Pro Phe Pro Glu Gly Leu Ser Glu Gly Phe Gly  
 20 25 30

Pro

<210> 3888  
 <211> 48  
 <212> PRT  
 <213> Homo sapiens

<400> 3888  
 Met Gly Leu Gln Val Thr Pro Pro Leu Ser Phe Thr Gly Leu Trp Phe  
 1 5 10 15

Val Val Met Ala Asn Met Gly Trp Gln Arg Thr Ile Leu Thr Lys Val  
 20 25 30

Glu Ala Leu Gln His Gly Val Gln Pro Leu Ser Met Asp Ser Gly Pro  
 35 40 45

<210> 3889  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

<400> 3889  
 Met Gly Cys Pro Gly Leu Glu Gly Thr Leu Phe Leu Pro Pro Pro Leu  
 1 5 10 15

Pro Asn Leu Ser  
 20

<210> 3890  
 <211> 98  
 <212> PRT  
 <213> Homo sapiens

<400> 3890  
 Met Asn Thr Lys Gly Arg Asp Phe His Leu Ala Val Phe Val Phe Pro



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102750.000000

<400> 3893  
Met Ala Leu Gln Trp Phe Cys Ile Leu Val Gly Asn Leu Phe Trp Phe  
1 5 10 15  
Ile Leu Ala Phe Pro Gln Pro Ser Cys Trp Phe Phe Gly Lys Met Trp  
20 25 30  
His Pro Xaa Gln Thr Xaa  
35

<210> 3894  
<211> 59  
<212> PRT  
<213> Homo sapiens  
<220>  
<221> SITE  
<222> (26)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 3894  
Met Ala Leu Tyr Ala Gly Phe Leu Leu Trp Ala Gly His Leu Gln Glu  
1 5 10 15  
Gly Tyr Ser Trp Arg Asn Gly Trp Gly Xaa Val Ala Val Asp Ser Ser  
20 25 30  
Leu Gly Pro Glu Arg Ile Glu Ser Glu Leu Gly Lys Leu Gln Ser Glu  
35 40 45  
Leu Lys Ser Arg Asn Pro Val Gly Gly Lys Tyr  
50 55

<210> 3895  
<211> 141  
<212> PRT  
<213> Homo sapiens

<400> 3895  
His Ser Leu Leu Leu Leu Leu Leu Leu Thr Leu Leu Gly Leu Gly Leu  
1 5 10 15  
Val Gln Pro Ser Tyr Gly Gln Asp Gly Met Tyr Gln Arg Phe Leu Arg  
20 25 30  
Gln His Val His Pro Glu Glu Thr Gly Gly Ser Asp Arg Tyr Cys Asn  
35 40 45  
Leu Met Met Gln Arg Arg Lys Met Thr Leu Tyr His Cys Lys Arg Phe  
50 55 60  
Asn Thr Phe Ile His Glu Asp Ile Trp Asn Ile Arg Ser Ile Cys Ser  
65 70 75 80  
Thr Thr Asn Ile Gln Cys Lys Asn Gly Lys Met Asn Cys His Glu Gly  
85 90 95



<210> 3899  
 <211> 32  
 <212> PRT  
 <213> Homo sapiens

<400> 3899  
 Met Leu His Leu Ser Ser Phe Leu Val Tyr Phe Ala Asn Trp Leu Leu  
   1                  5                  10                  15  
 Asn Ser Glu Thr Trp Ser Asp Ser Gly Ser Val Ser Leu Ala Ile Leu  
           20                  25                  30

<210> 3900  
 <211> 15  
 <212> PRT  
 <213> Homo sapiens

<400> 3900  
 Met Phe Ser Ile Ile Ala Phe Pro Leu Ile Leu Leu Thr Cys Cys  
   1                  5                  10                  15

<210> 3901  
 <211> 72  
 <212> PRT  
 <213> Homo sapiens

<400> 3901  
 Met Ile Ser Ser Gly Ser Ser Arg Tyr Ala Glu Thr Trp Asp Leu Leu  
   1                  5                  10                  15  
 Leu Phe Leu Arg Leu Thr Cys Cys Ala His Cys Ala Trp Thr Pro Trp  
           20                  25                  30  
 His Asp Ala Gly Arg Gly Cys Arg Thr His Thr Ser Phe Glu Val Arg  
           35                  40                  45  
 Gln Ser Thr Asn Pro Ser Ser Thr Thr His Ser Phe Ser Ser Ser Gln  
   50                  55                  60  
 Leu Cys Gly Leu Gly Gln Ile Ala  
   65                  70

<210> 3902  
 <211> 37  
 <212> PRT  
 <213> Homo sapiens

<400> 3902  
 Leu Leu Leu Val Leu Leu Ile Phe Val Ala Ser Ala His Gly Ala Leu  
   1                  5                  10                  15

Val Ser Pro Gln Ser Asn Gly Gly Ser Pro Lys Gln Leu His Tyr Arg  
 20 25 30

Val Ile Leu Gly Lys  
 35

<210> 3903  
 <211> 25  
 <212> PRT  
 <213> Homo sapiens

<400> 3903  
 Met Phe Glu Ile Arg Thr Ala Leu Ser Leu Arg Leu Ile Pro Leu Phe  
 1 5 10 15

Val Ser Thr Cys Gly Val Thr Gln Lys  
 20 25

<210> 3904  
 <211> 30  
 <212> PRT  
 <213> Homo sapiens

<400> 3904  
 Met Leu Val Ala Phe Leu Val Leu Tyr Phe Ser Phe Pro Tyr Leu Ala  
 1 5 10 15

Phe Val Gly Pro Lys Pro Thr Asn Asn Arg Leu Leu Lys Glu  
 20 25 30

<210> 3905  
 <211> 66  
 <212> PRT  
 <213> Homo sapiens

<400> 3905  
 Met Leu Ser Tyr Val Val Leu Met Phe Ile Leu Lys Leu Val Thr Phe  
 1 5 10 15

Pro Arg Lys Ile Leu Phe Asp Ser Ile Thr Ser Leu Asp Ile Ile Leu  
 20 25 30

Asn Gln Ser Gly Lys Glu Lys Lys Tyr Arg Lys Tyr Tyr Asn Leu Cys  
 35 40 45

Phe His His Lys Ile Phe Cys Ile Ser Ile Leu Leu Gln Tyr Gly Arg  
 50 55 60

Arg Leu  
 65

<210> 3906





005000-04200

<210> 3910  
<211> 42  
<212> PRT  
<213> Homo sapiens

<400> 3910  
Met Glu Lys Cys Glu Lys Leu Asn Cys Leu Glu Met Ser Arg Phe Phe  
1 5 10 15  
Tyr Leu Gln Leu Leu Leu Ala Cys Pro Thr Val Val Phe Glu Tyr Phe  
20 25 30  
Leu Tyr Ser Thr Pro Lys Asp Phe Asn Phe  
35 40

<210> 3911  
<211> 50  
<212> PRT  
<213> Homo sapiens

<400> 3911  
Met Phe Tyr Phe Met Asn Leu Thr Lys Phe Phe Phe Leu Asp Leu Ala  
1 5 10 15  
Asn Phe Asn Arg Val Phe Ser Tyr Gln Thr Phe Thr Tyr Leu Leu Lys  
20 25 30  
Leu His Ser Cys Lys Leu Phe Gly Gly Ile Cys Phe Tyr Phe Tyr Phe  
35 40 45  
Val Val  
50

<210> 3912  
<211> 37  
<212> PRT  
<213> Homo sapiens

<400> 3912  
Leu Asn Asp Gly Leu Cys Trp Phe Phe Cys Leu Phe Gly Trp Phe Val  
1 5 10 15  
Cys Leu Phe Trp His Ser Val Lys Gly Ser Gln Thr Phe Thr Tyr Tyr  
20 25 30  
Leu Leu Ser Cys Pro  
35

<210> 3913  
<211> 37  
<212> PRT  
<213> Homo sapiens

[illegible]

Leu Leu Ser Cys Pro  
35

<210> 3914

<211> 38

<212> PRT

<213> Homo sapiens

<400> 3914

Phe His Ser Leu Lys Phe  
35

<210> 3915

<211> 34

<212> PRT

<213> Homo sapiens

<400> 3915

Tyr Phe

<210> 3916

<211> 140

<212> PRT

<213> Homo sapiens

<400> 3916

Gln Glu Ala Tyr Trp Ala Gln Tyr Arg Ala Asn Glu Asp Gln Leu Phe  
35 40 45



Phe Leu Phe Leu Pro Pro Asn Pro Ser His Ser Leu Pro Pro Ser Leu  
 35 40 45

Leu Pro Leu Phe Ala Ile Ile Phe Ser Leu Cys Phe Phe Ser Leu Leu  
 50 55 60

Pro Ser Leu Trp Ala Val Met Lys Ile Asn Ser Asp Cys Val His  
 65 70 75

<210> 3920  
 <211> 31  
 <212> PRT  
 <213> Homo sapiens

<400> 3920  
 Met Ser Gly Glu Asp Pro Leu Leu Ser Ile Pro Thr Cys Ala Thr Pro  
 1 5 10 15  
 Gly Ser Pro Cys Trp Gly Leu Leu Gly Pro Phe Ser Ser Cys Leu  
 20 25 30

<210> 3921  
 <211> 1  
 <212> PRT  
 <213> Homo sapiens

<400> 3921  
 Ile  
 1

<210> 3922  
 <211> 23  
 <212> PRT  
 <213> Homo sapiens

<400> 3922  
 Met Ser Asp Pro Lys Glu Asn Val Phe Thr Leu Met Leu Arg Cys Ser  
 1 5 10 15  
 Ala Ala Pro Leu Cys Ser Val  
 20

<210> 3923  
 <211> 35  
 <212> PRT  
 <213> Homo sapiens

<400> 3923  
 Met Phe Pro Asn Ile Met Phe Cys Thr Leu Met Leu Ile Ser Leu Cys  
 1 5 10 15  
 Val Val Pro Asp Thr Ser Trp Asp Leu Lys Lys Cys Cys Phe Phe Leu  
 20 25 30

Lys Asp Gly  
35

<210> 3924  
<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 3924  
Met Val Gly Ser Val Asp Phe Ser Phe  
1 5

<210> 3925  
<211> 22  
<212> PRT  
<213> Homo sapiens

<400> 3925  
Met Leu Leu Leu Gly Leu Glu Gly Leu Leu Phe Met Leu Phe Asn Ala  
1 5 10 15  
Leu Ser Asn Val Phe Phe  
20

<210> 3926  
<211> 3  
<212> PRT  
<213> Homo sapiens

<400> 3926  
Leu Leu Ile  
1

<210> 3927  
<211> 37  
<212> PRT  
<213> Homo sapiens

<400> 3927  
Met Gly Ile Gly Ala Leu Ile Leu Leu Phe Phe Leu Thr Val Val Leu  
1 5 10 15  
Pro Phe Tyr Gly Phe Asn Gln Pro Pro Pro Pro Gly Lys His Leu Leu  
20 25 30

Trp Ala Cys Trp Val  
35

<210> 3928  
<211> 43

<212> PRT  
<213> Homo sapiens

<400> 3928  
Met Ala Val His His Pro Ala Phe Gln Leu Asn Val Thr Cys Leu Leu  
1 5 10 15  
Leu Leu Lys Met Ala Phe Cys Val Leu Gln Arg Leu Ala Trp Glu Val  
20 25 30  
Leu Cys Ser Ile Ala Val Asn Leu Asp Thr Phe  
35 40

<210> 3929  
<211> 52  
<212> PRT  
<213> Homo sapiens

<400> 3929  
Leu Pro Leu Glu Asp Leu Cys Lys Gly Gly Leu Gly Thr Lys Glu Asn  
1 5 10 15  
Val Leu Phe Gly Arg Ala Gly Ser Lys Gly Thr Gly Gln Gly Leu Val  
20 25 30  
Gly Leu Gly Asn Gly Ser Leu Ser Trp Ile Pro Leu Met Lys Arg Leu  
35 40 45  
Gly Leu Phe Thr  
50

<210> 3930  
<211> 39  
<212> PRT  
<213> Homo sapiens

<400> 3930  
Met Ala Ala Arg Pro Leu Pro Val Ser Pro Ala Arg Ala Leu Leu Ala  
1 5 10 15  
Arg Pro Gly Arg Cys Ser Ala Arg Ala Leu Arg Gly Pro Arg Gly Glu  
20 25 30  
Leu Met Glu Pro Arg Lys Ser  
35

<210> 3931  
<211> 72  
<212> PRT  
<213> Homo sapiens

<400> 3931  
Met Met Pro Val Cys Arg Val Gly Leu Trp Asn Gly Ser Cys Leu Cys  
1 5 10 15



Table 1. Demographic characteristics of the study population	
Age (years)	Mean (SD)
Male	55.2 (10.5)
Female	56.8 (11.2)
Marital status	
Married	78.5%
Single	21.5%
Education level	
High school or above	65.2%
Below high school	34.8%
Occupation	
Professional	12.3%
Managerial	18.7%
Technical	25.4%
Service	32.1%
Unemployed	11.5%
Income (USD/month)	
< 1000	15.6%
1000-2000	28.9%
2000-3000	35.2%
> 3000	19.3%
Health status	
Good	72.1%
Fair	27.9%
Chronic diseases	
Hypertension	45.3%
Diabetes	32.1%
Heart disease	28.7%
Stroke	15.2%
Arthritis	38.9%
Chronic kidney disease	12.5%
Chronic lung disease	18.4%
Chronic liver disease	10.1%
Chronic mental illness	8.7%
Chronic pain	22.3%
Chronic infection	14.6%
Chronic skin disease	11.2%
Chronic eye disease	9.8%
Chronic ear, nose, and throat disease	7.5%
Chronic dental disease	6.3%
Chronic urinary disease	5.1%
Chronic reproductive disease	4.2%
Chronic cancer	3.1%
Chronic autoimmune disease	2.8%
Chronic allergic disease	2.5%
Chronic infectious disease	2.2%
Chronic parasitic disease	1.9%
Chronic toxic disease	1.6%
Chronic drug-induced disease	1.3%
Chronic radiation-induced disease	1.1%
Chronic genetic disease	0.9%
Chronic congenital disease	0.7%
Chronic acquired disease	0.5%
Chronic idiopathic disease	0.3%
Chronic unknown disease	0.1%

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<210> 3937
<211> 53
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (8)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 3937
Met Ser His Cys Leu Phe Leu Xaa Phe Cys Leu Lys Ile Pro Ser Trp
  1              5              10              15

Lys Ser Cys His Ala Ile Gly Asp Cys Asp Ile Leu Leu Val Met Tyr
          20              25              30

Thr Ala Thr Gly Phe Val Cys Tyr Val Asp Gly Leu Tyr Leu Cys Tyr
      35              40              45

Ser Glu Gly Ile Lys
  50

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<400> 3938
Met Ala Gln Pro Pro Gln Asn Leu Lys Arg Phe Ser Ser Cys Arg Ala
  1             5             10             15
Phe Ala Arg Leu Gly Tyr Pro Pro Tyr Phe Pro Cys Leu Pro Ser Ser
  20             25             30
Ala Ala Arg Pro Ser Val Pro Ala Ser Ala Gln Pro Ser Val Lys Gly

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35

40

45

Ser Pro Ala Ser Asn Leu His Cys Thr Ala Ser Pro Lys Thr Val Thr  
50 55 60

Ser Trp Lys Ala Gly Ala Gln Leu Pro Leu Asn Lys Arg Val Ala Lys  
65 70 75 80

Lys Glu Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Gly  
85 90 95

Arg

<210> 3939

<211> 22

<212> PRT

<213> Homo sapiens

<400> 3939

Met Thr Phe Phe Val Phe Met Glu Val Arg Thr Pro Val Met Gln Thr  
1 5 10 15

Gly Ser Arg Ser Leu Leu  
20

<210> 3940

<211> 7

<212> PRT

<213> Homo sapiens

<400> 3940

Met Lys Cys Ile Leu Glu Phe  
1 5

<210> 3941

<211> 30

<212> PRT

<213> Homo sapiens

<400> 3941

Met Tyr Leu Phe Asn Asn Phe Phe Phe Ser Ser Trp Tyr Leu Ile Leu  
1 5 10 15

Val Leu Leu Asn Gln Tyr Ser Gly Thr Ile Val Gly Val Tyr  
20 25 30

<210> 3942

<211> 29

<212> PRT

<213> Homo sapiens

<400> 3942

Met Gly Ala Arg His Cys Ile Trp Pro Phe Cys Arg Tyr Phe Phe Pro  
 1 5 10 15

Leu Ser Leu Ile Val Pro Ile Asp Phe Ser Pro Phe Leu  
 20 25

<210> 3943  
 <211> 38  
 <212> PRT  
 <213> Homo sapiens

<400> 3943  
 Met Lys Glu Thr Gly Leu Ile Ala Ile Ile Leu Leu Leu Ala Ala Phe  
 1 5 10 15

Ser Lys Ser Leu Phe Leu Lys Pro Pro Pro Ile Leu Phe Lys Gln Ile  
 20 25 30

Lys Thr Lys Ile Ser Cys  
 35

<210> 3944  
 <211> 6  
 <212> PRT  
 <213> Homo sapiens

<400> 3944  
 Ile Tyr Ser Ala Leu Asp  
 1 5

<210> 3945  
 <211> 34  
 <212> PRT  
 <213> Homo sapiens

<400> 3945  
 Met Arg Ser Phe Cys Phe Leu Gly Lys Val Phe His Phe Leu Val Trp  
 1 5 10 15

Leu Phe Ala His Pro Arg Arg Arg Lys Thr Ser Leu Arg Val Thr Phe  
 20 25 30

Thr Trp

<210> 3946  
 <211> 34  
 <212> PRT  
 <213> Homo sapiens

<400> 3946  
 Met Arg Leu Cys Val Phe Leu Ala Leu Leu His Val Pro Phe Gln Leu  
 1 5 10 15

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Met Ala His Ser Asp Ser Gln Arg Phe Met Pro Lys Leu His Thr Ile  
 20 25 30

Val Phe

<210> 3947  
 <211> 33  
 <212> PRT  
 <213> Homo sapiens

<400> 3947  
 Met Arg Leu Gly Ala Lys Thr Ser Leu Phe Phe Phe Ser Phe Leu Phe  
 1 5 10 15  
 Leu Leu Val Phe Ala Lys Leu Leu Leu Leu Lys Lys Gly Ser Tyr Cys  
 20 25 30

Tyr

<210> 3948  
 <211> 71  
 <212> PRT  
 <213> Homo sapiens

<400> 3948  
 Met Ser Tyr Ile Thr Leu Leu Lys Phe Ile Leu Tyr Phe Phe Ser Leu  
 1 5 10 15  
 Val Ser Glu Phe Arg Lys Leu Ile Pro Phe Ile Met Phe Ser Leu Tyr  
 20 25 30  
 Trp Leu Cys Tyr Phe Asp Leu Thr Ile Leu Phe Lys Ser Leu Ile Thr  
 35 40 45  
 Tyr Leu Phe Phe Leu Phe Ser Phe Tyr Ser Ile Ile Ile Pro Ile Arg  
 50 55 60  
 Glu Phe Val Thr Pro Glu Lys  
 65 70

<210> 3949  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

<400> 3949  
 Met Lys Leu Leu Ala Leu Val Ile Ser Ile Leu Ile Cys Thr Gly Gln  
 1 5 10 15  
 Ile Tyr Asn Cys  
 20

<210> 3950  
<211> 35  
<212> PRT  
<213> Homo sapiens

<400> 3950  
Met Glu Ala Ala Lys Ser Leu Cys Pro Arg Ala Pro Leu Ser Cys Ser  
1 5 10 15  
Ala Leu Leu Leu Cys Ser Phe Cys Ile Val Gly Glu Asp Gly Tyr His  
20 25 30  
Cys Val Cys  
35

<210> 3951  
<211> 33  
<212> PRT  
<213> Homo sapiens

<400> 3951  
Met Ser Glu Phe Leu Leu Leu Cys Ile Phe Pro Ser Ile Trp Tyr Cys  
1 5 10 15  
Gln Phe Lys His Lys Cys Trp Glu Arg Tyr Arg Ala Thr Gly Thr Leu  
20 25 30  
Thr

<210> 3952  
<211> 49  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (8)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (15)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (16)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 3952  
Tyr Phe Thr Val Ile Tyr Phe Xaa Phe Gln Leu Ser Ile Phe Xaa Xaa  
1 5 10 15  
Ser Leu Ser Met Gly Thr Tyr Leu Pro His Phe Phe Arg Ser Asp Met

20

25

30

Thr His Lys Lys Asp Gly Phe Gly Phe Leu Lys Thr Leu Thr Ile Ser  
 35 40 45

Asn

&lt;210&gt; 3953

&lt;211&gt; 30

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3953

Met Ile Phe Leu Phe Leu Phe Phe Val Phe Cys Phe Leu Val Ser Gln  
 1 5 10 15

Tyr Val Ser Pro Phe Tyr Ser Asn Thr Phe Phe Gly Val Gln  
 20 25 30

&lt;210&gt; 3954

&lt;211&gt; 29

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3954

Met Cys Leu Pro Ser Asp Val Thr Phe Pro Leu Leu Leu Leu Gly Met  
 1 5 10 15

Cys Leu Val Pro Leu Ser Pro Ala His Val Thr Val Thr  
 20 25

&lt;210&gt; 3955

&lt;211&gt; 12

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3955

Met Ile Val Ile Val Phe Tyr Leu Ile Asn Leu Leu  
 1 5 10

&lt;210&gt; 3956

&lt;211&gt; 81

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3956

Trp Gly Lys Ile Leu Val Val Leu Met Val Asn Leu Ser Tyr Trp Ile  
 1 5 10 15

Leu Cys Met Pro His Ser Arg Ile His Cys Leu Ser Leu Ile Met Asp  
 20 25 30



Lys	Asp	Phe	His	Val	Asp	Thr	Ile	Leu	Phe	Pro	Thr	Ala	Trp	Met	Asn	225	230	235	240
Val	Leu	Pro	Leu	Leu	Thr	Ala	Ile	Glu	Phe	His	Ser	Ala	Trp	Ala	Met	245	250	255	
Gly	Met	Gly	Val	Asn	Leu	Leu	Val	Ala	Asn	Thr	His	His	Val	Ser	Leu	260	265	270	
Asn	Met	Thr	Gly	Ser	Gly	Ile	Tyr	Ala	Pro	Asn	Gly	Pro	Lys	Val	Tyr	275	280	285	
His	Tyr	Asp	Met	Lys	Thr	Glu	Leu	Gly	Lys	Leu	Leu	Leu	Ser	Glu	Val	290	295	300	
Asp	Ser	His	Pro	Leu	Ser	Ser	Leu	Ala	Tyr	Pro	Thr	Ala	Val	Asn	Trp	305	310	315	320
Asn	Ala	Tyr	Ala	Thr	Thr	Ile	Lys	Pro	Phe	Pro	Val	Gln	Lys	Asn	Thr	325	330	335	
Phe	Arg	Gly	Phe	Ile	Ser	Arg	Asp	Gly	Phe	Asn	Phe	Thr	Glu	Leu	Phe	340	345	350	
Glu	Asn	Ala	Gly	Asn	Leu	Thr	Val	Cys	Gln	Lys	Glu	Leu	Cys	Cys	His	355	360	365	
Leu	Ser	Tyr	Arg	Met	Leu	Gln	Lys	Glu	Glu	Asn	Glu	Val	Tyr	Val	Leu	370	375	380	
Gly	Ala	Phe	Thr	Gly	Leu	His	Gly	Arg	Arg	Arg	Arg	Glu	Tyr	Trp	Gln	385	390	395	400
Val	Cys	Thr	Met	Leu	Lys	Cys	Lys	Thr	Thr	Asn	Leu	Thr	Thr	Cys	Gly	405	410	415	
Arg	Pro	Val	Glu	Thr	Ala	Ser	Thr	Arg	Phe	Glu	Met	Phe	Ser	Leu	Ser	420	425	430	
Gly	Thr	Phe	Gly	Thr	Glu	Tyr	Val	Phe	Pro	Glu	Val	Leu	Leu	Thr	Glu	435	440	445	
Ile	His	Leu	Ser	Pro	Gly	Lys	Phe	Glu	Val	Leu	Lys	Asp	Gly	Arg	Leu	450	455	460	
Val	Asn	Lys	Asn	Gly	Ser	Ser	Gly	Pro	Ile	Leu	Thr	Val	Ser	Leu	Phe	465	470	475	480
Gly	Arg	Trp	Tyr	Thr	Lys	Asp	Ser	Leu	Tyr	Ser	Ser	Cys	Gly	Thr	Ser	485	490	495	
Asn	Ser	Ala	Ile	Thr	Tyr	Leu	Leu	Ile	Phe	Ile	Leu	Leu	Met	Ile	Ile	500	505	510	
Ala	Leu	Gln	Asn	Ile	Val	Met	Leu									515	520		

<210> 3958

<211> 37  
<212> PRT  
<213> Homo sapiens

<400> 3958  
Met Gly Leu Pro Val Ser Trp Ala Pro Pro Ala Leu Trp Val Leu Gly  
1 5 10 15  
Cys Cys Ala Leu Leu Leu Ser Leu Trp Ala Leu Cys Thr Ala Cys Arg  
20 25 30  
Arg Pro Arg Thr Leu  
35

<210> 3959  
<211> 35  
<212> PRT  
<213> Homo sapiens

<400> 3959  
Met Asn Val Ser Ile Phe Leu Val Gly Leu Phe Leu Ile Ile Glu Leu  
1 5 10 15  
Tyr Ile Ala Gly Ser Leu Thr Thr Ser Leu Glu Phe Gln Gln Glu Ala  
20 25 30  
Phe Ala Arg  
35

<210> 3960  
<211> 47  
<212> PRT  
<213> Homo sapiens

<400> 3960  
Met Leu Phe Leu Cys Asn Asn Trp Leu Val Ser Leu Phe Cys Ser Leu  
1 5 10 15  
Leu Ile Gly Ser Cys Phe Leu Cys Val Gln Asn Lys Asn Lys Phe Gly  
20 25 30  
Gln Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys  
35 40 45

<210> 3961  
<211> 46  
<212> PRT  
<213> Homo sapiens

<400> 3961  
Met Pro Glu Pro Leu Leu Gly Leu Ser Val Val Phe Thr Leu Val Leu  
1 5 10 15  
Gly His Pro Ser Phe Gly Arg Gly Gly Lys Ala Ala Gly Lys Met Glu  
20 25 30



Thr Val Gly Gly Val Cys Leu Pro Ile Gly Leu Ala Leu Val  
 35 40 45

<210> 3962  
 <211> 19  
 <212> PRT  
 <213> Homo sapiens

<400> 3962  
 Met Ala Trp Val Gly Leu Ala Ser Leu Gly Val Cys Cys Pro Ile Ser  
 1 5 10 15

Arg Val Pro

<210> 3963  
 <211> 34  
 <212> PRT  
 <213> Homo sapiens

<400> 3963  
 Met Cys Ile Leu Val Leu Val Leu Ser Val Ile Ile Leu Ile Leu Gly  
 1 5 10 15

Leu Ile Ile Trp Leu Val Tyr Lys Thr Asn Asp Cys Leu Arg Ser Phe  
 20 25 30

Ser Arg

<210> 3964  
 <211> 67  
 <212> PRT  
 <213> Homo sapiens

<400> 3964  
 Pro Phe Leu Gly Trp Asn Gln Gly Ala Trp Val Gly Val Ala Ala Gly  
 1 5 10 15

Asn Met Pro Pro Cys Leu Ala Leu Cys Arg Asn Pro Trp Lys Ile Arg  
 20 25 30

Pro Ser Ser Leu Pro Leu Ser Ala Ser Cys Thr Arg Ala Arg Ser Arg  
 35 40 45

Met Ser Ala Leu Pro Gln Pro Ala Pro Ser Gly Val Phe Ala Ser Ser  
 50 55 60

Asp Gly Arg  
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<210> 3965

<211> 257  
 <212> PRT  
 <213> Homo sapiens

<400> 3965

Met	Asp	Phe	Ile	Gln	His	Leu	Gly	Val	Cys	Cys	Leu	Val	Ala	Leu	Ile	1	5	10	15
Ser	Val	Gly	Leu	Leu	Ser	Val	Ala	Ala	Cys	Trp	Phe	Leu	Pro	Ser	Ile	20	25	30	
Ile	Ala	Ala	Ala	Ala	Ser	Trp	Ile	Ile	Thr	Cys	Val	Leu	Leu	Cys	Cys	35	40	45	
Ser	Lys	His	Ala	Arg	Cys	Phe	Ile	Leu	Leu	Val	Phe	Leu	Ser	Cys	Gly	50	55	60	
Leu	Arg	Glu	Gly	Arg	Asn	Ala	Leu	Ile	Ala	Ala	Gly	Thr	Gly	Ile	Val	65	70	75	80
Ile	Leu	Gly	His	Val	Glu	Asn	Ile	Phe	His	Asn	Phe	Lys	Gly	Leu	Leu	85	90	95	
Asp	Gly	Met	Thr	Cys	Asn	Leu	Arg	Ala	Lys	Ser	Phe	Ser	Ile	His	Phe	100	105	110	
Pro	Leu	Leu	Lys	Lys	Tyr	Ile	Glu	Ala	Ile	Gln	Trp	Ile	Tyr	Gly	Leu	115	120	125	
Ala	Thr	Pro	Leu	Ser	Val	Phe	Asp	Asp	Leu	Val	Ser	Trp	Asn	Gln	Thr	130	135	140	
Leu	Ala	Val	Ser	Leu	Phe	Ser	Pro	Ser	His	Val	Leu	Glu	Ala	Gln	Leu	145	150	155	160
Asn	Asp	Ser	Lys	Gly	Glu	Val	Leu	Ser	Val	Leu	Tyr	Gln	Met	Ala	Thr	165	170	175	
Thr	Thr	Glu	Val	Leu	Ser	Ser	Leu	Gly	Gln	Lys	Leu	Leu	Ala	Phe	Ala	180	185	190	
Gly	Leu	Ser	Leu	Val	Leu	Leu	Gly	Thr	Gly	Leu	Phe	Met	Lys	Arg	Phe	195	200	205	
Leu	Gly	Pro	Cys	Gly	Trp	Lys	Tyr	Glu	Asn	Ile	Tyr	Ile	Thr	Arg	Gln	210	215	220	
Phe	Val	Gln	Phe	Asp	Glu	Arg	Glu	Arg	His	Gln	Gln	Arg	Pro	Cys	Val	225	230	235	240
Leu	Pro	Leu	Asn	Lys	Glu	Glu	Arg	Arg	Lys	Phe	Ile	Ser	Gly	Phe	Gln	245	250	255	

Ser

<210> 3966  
 <211> 291  
 <212> PRT

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Leu Phe Phe  
290



<210> 3970  
 <211> 23  
 <212> PRT  
 <213> Homo sapiens

<400> 3970  
 Met Leu Phe Leu Lys Val Cys Leu Cys Leu Phe Lys Ser Tyr Ser Met  
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 Ala Ser Trp Glu Ala Leu Arg  
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<210> 3971  
 <211> 82  
 <212> PRT  
 <213> Homo sapiens

<400> 3971  
 Met Gly Leu Leu Leu Trp Gly Cys Phe Cys Thr Arg Gly Leu Pro Arg  
 1 5 10 15  
 Cys Ala Pro Cys Leu Pro Pro Thr Trp Leu Ser Leu Leu Leu Gly Arg  
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 Thr Arg Pro His Val Leu Arg Met Leu Gln Lys Cys Gly Pro Trp Arg  
 35 40 45  
 Asp Pro Lys Asp Thr Trp His Arg Pro Gly Arg Gly Arg Pro Arg Leu  
 50 55 60  
 Val Ser Ala Pro Phe His Gly Gln Thr Gly Leu Leu Ser Cys Thr Ile  
 65 70 75 80  
 Asn Leu

<210> 3972  
 <211> 31  
 <212> PRT  
 <213> Homo sapiens

<400> 3972  
 Met Glu Ser Ile Leu Met Ile Leu Ile Leu Ser Val Pro Thr Trp Arg  
 1 5 10 15  
 Met His Leu Leu Leu Leu Glu Val Ser Ala Val Ala Gly Leu Leu  
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<210> 3973  
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<212> PRT  
<213> Homo sapiens

<400> 3973  
Gln Thr Ala Leu Arg Arg Pro His Gly Pro Arg  
1 5 10

<210> 3974  
<211> 49  
<212> PRT  
<213> Homo sapiens

<400> 3974  
Arg Met Leu Leu Phe Ile Tyr Leu Leu Val Asp Gly His Leu Gly  
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Trp Phe His Ile Phe Ala Ile Ala Asn Cys Ala Ala Ile Asn Met His  
20 25 30  
Val Gln Val Ser Phe Ser Asn Asn Asp Phe Phe Leu Leu Thr Pro Cys  
35 40 45  
Ser

<210> 3975  
<211> 26  
<212> PRT  
<213> Homo sapiens

<400> 3975  
Met Phe Thr Leu Ser Leu Leu Phe Lys Leu Phe Arg Ile Ser Phe Ser  
1 5 10 15  
Leu Pro Phe Arg Arg Ser Val Phe Thr Leu  
20 25

<210> 3976  
<211> 86  
<212> PRT  
<213> Homo sapiens

<400> 3976  
Met Leu Ser Tyr Ser Ser Ala Met Phe Ser Gln Lys Lys Leu Ile Thr  
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Ser Ser Leu Leu Trp Leu Leu Gln Leu Gln Glu Val Pro Ala Met Ser  
20 25 30  
His Val Val Phe Asp Gln Trp Ser Pro Val Pro Gly Gln Arg Arg Gln  
35 40 45  
Leu Tyr Asn Val Ile Cys Val Val Lys Ile Leu Pro Leu Thr Gln Asn  
50 55 60



<400> 3979  
Met Lys Trp Arg Cys Leu Met Cys Phe Thr Leu Ala Cys Leu Thr Val  
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Phe Tyr Leu Thr Val Asn Ser Ala Val Phe Tyr Cys Glu Arg Lys Pro  
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Gln Cys Leu Ser Ser Leu Arg Asn Trp Gly Glu Arg Trp Thr Thr Thr  
35 40 45  
Val Val His Phe Leu Ser Val Leu Gly Glu Cys His Thr Phe Pro Ser  
50 55 60  
Gln Ser Lys Arg Asn Leu Xaa Glu Ile Leu Arg Glu Thr Val Ser Pro  
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Gln Val

<210> 3980  
<211> 44  
<212> PRT  
<213> Homo sapiens

<400> 3980  
Lys Phe Met Leu Cys Val Ser Met Val Cys Phe Ile Leu Leu Leu Ser  
1 5 10 15  
Ile Leu Leu Tyr Glu Tyr Thr Lys Ile Cys Val Ser Val His Arg Leu  
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Ile Asp Ile Trp Val Ile Thr Thr Leu Lys Leu Leu  
35 40

<210> 3981  
<211> 32  
<212> PRT  
<213> Homo sapiens

<400> 3981  
Met Val Arg Ile Leu Ser Met Val Val Ile Ile Ile Ile Ile Ile Asn  
1 5 10 15  
Gly Ser Pro Leu Cys Val Leu Ser Tyr Phe Ile Phe Thr Ile Phe Thr  
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<210> 3982  
<211> 28  
<212> PRT  
<213> Homo sapiens

<400> 3982



Met Met Gly Ile Trp Gly Ile Glu Arg Ser Trp Val Gly Asn Ile Ala  
 1 5 10 15

Trp Val Ile Ser Leu Leu Thr Leu Tyr Cys Lys Val  
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<210> 3983  
 <211> 137  
 <212> PRT  
 <213> Homo sapiens

<400> 3983  
 Ile Thr His His Ala Val Ile Leu Phe Val Leu Val Pro Val Ala Gln  
 1 5 10 15

Arg Leu Arg Gly Asp Leu Gly Asp Phe Phe Val Gly Cys Ile Phe Thr  
 20 25 30

Ala Glu Leu Ser Thr Pro Phe Val Ser Leu Gly Arg Val Leu Ile Gln  
 35 40 45

Leu Lys Gln Gln His Thr Leu Leu Tyr Lys Val Asn Gly Ile Leu Thr  
 50 55 60

Leu Ala Thr Phe Leu Ser Cys Arg Ile Leu Leu Phe Pro Phe Met Tyr  
 65 70 75 80

Trp Ser Tyr Gly Arg Gln Gln Gly Leu Ser Leu Leu Gln Val Pro Phe  
 85 90 95

Ser Ile Pro Phe Tyr Cys Asn Val Ala Asn Ala Phe Leu Val Ala Pro  
 100 105 110

Gln Ile Tyr Trp Phe Cys Leu Leu Cys Arg Lys Ala Val Arg Leu Phe  
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Asp Thr Pro Gln Ala Lys Lys Asp Gly  
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<210> 3984  
 <211> 42  
 <212> PRT  
 <213> Homo sapiens

<400> 3984  
 Leu Phe Leu Phe Phe Leu Ser Pro Ser Asp Phe Ser Ala Tyr His Leu  
 1 5 10 15

His Phe Ser Pro Leu Thr His Ser Glu Leu Ile Glu Ser Cys Phe Cys  
 20 25 30

His His His Thr Thr Glu Thr Gly His Arg  
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<210> 3985

<211> 38  
<212> PRT  
<213> Homo sapiens

<400> 3985  
Met Val Ile Phe Cys Ser Leu Leu Ser Leu Ile Ala Tyr Ser Ile Met  
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Ala Phe Leu Lys Lys Asn Leu Cys Ile Phe Ser His Pro Tyr Leu Phe  
20 25 30  
Ala Tyr Phe Ser Asn His  
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<210> 3986  
<211> 32  
<212> PRT  
<213> Homo sapiens

<400> 3986  
Met Tyr Tyr Ile Ser Thr Phe Leu Ile Leu Thr Trp Ala Tyr Ala Leu  
1 5 10 15  
Ser Leu Ile Val Ile Asn Leu Cys Cys Ser Ser Ile Cys Asn Thr Leu  
20 25 30

<210> 3987  
<211> 42  
<212> PRT  
<213> Homo sapiens

<400> 3987  
Met Asn Ser Asn Arg Leu Glu Leu Leu Leu Tyr Ile Thr Gln Leu Ala  
1 5 10 15  
Leu Cys Thr Cys Arg Phe Cys Ile Leu Gly Phe Asn Cys Gly Ser Lys  
20 25 30  
Ile Phe Gly Gly Lys Lys Ala Ile Gln Gln  
35 40

<210> 3988  
<211> 36  
<212> PRT  
<213> Homo sapiens

<400> 3988  
Met Gly Ser Ile Ala Gly Thr Gln Gly Cys Arg Pro Arg Arg Leu Phe  
1 5 10 15  
Phe Leu Phe Ser Leu Cys Arg Leu Ile Ser Ser Leu Ser Val Ile Trp  
20 25 30

Phe Pro Cys Pro  
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<210> 3989  
<211> 50  
<212> PRT  
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<400> 3989  
Met Trp Asn Ile Phe Ser Tyr Val Cys Trp Leu Leu Val Cys Leu Leu  
1 5 10 15

Leu Arg Ser Val Cys Ser Cys Leu Leu Pro Ser Phe Lys Trp Asp Leu  
20 25 30

Phe Phe Ala Cys Ser Leu Val His Thr Phe Phe Phe Phe Ile Asp Ser  
35 40 45

Gly Cys  
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<210> 3990  
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<212> PRT  
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<400> 3990  
Ser Gly Glu Gly Ala Trp Val Pro Gly Ala Ser Leu Ala Leu His Gln  
1 5 10 15

Asp Pro Val Glu  
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<210> 3991  
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<212> PRT  
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<400> 3991  
Met Val Leu Phe Leu Leu Arg Phe Leu Phe Leu  
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<210> 3992  
<211> 15  
<212> PRT  
<213> Homo sapiens

<400> 3992  
Met Glu Thr His Arg Gln Gln Leu Arg Lys Met Val Cys Gln Gln  
1 5 10 15

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<213> Homo sapiens
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<212> PRT
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<212> PRT
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1940

Tyr Met Thr Leu Arg Ser Lys Arg Gly Leu Leu Thr Met Thr Trp Arg  
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Tyr Gln Lys Ser Lys Arg Leu Pro Cys Lys  
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<210> 3997  
 <211> 52  
 <212> PRT  
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<400> 3997  
 Thr Gln Ser Leu Asp Pro Asp Glu Thr Ser Pro Pro Pro His Leu Cys  
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Pro His Gln Asp Lys Glu Leu Leu Pro Val Phe Pro Leu Gly His Gly  
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Ala Ser Cys Pro Pro Ser Ser Pro Ala Arg Asp Pro Lys Ala Gly Thr  
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Thr Pro Pro Ala  
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<210> 3998  
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 <212> PRT  
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<400> 3998  
 Met Leu Leu Leu Gln Ser Leu Phe Phe Ser His Glu Leu Gly Val Gly  
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Trp Gly Arg Glu Arg Glu Gly  
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<210> 3999  
 <211> 21  
 <212> PRT  
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<400> 3999  
 Met Pro Cys Phe Ser Leu Leu Ser Leu Pro Leu Trp Asp Pro Leu Val  
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Ile Leu Val Phe Cys  
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<210> 4004

<211> 39  
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<400> 4004  
Met Glu Phe Thr Asn Leu Val Ile Leu Thr Met Phe Leu Lys Leu Gly  
1 5 10 15  
Leu Ser Phe Pro Phe Trp Phe Val Ala Tyr Asp Val Gly Leu Leu Gly  
20 25 30  
Ile Lys Ser Ser Lys Asn Ser  
35

<210> 4005  
<211> 36  
<212> PRT  
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<400> 4005  
Met Leu Leu Leu Tyr Leu Ser Ser Phe Thr Phe Leu Glu Ser Pro Thr  
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Thr Gly Gln Arg Leu Lys Gly Thr Asp Leu Leu Cys Arg Met Ala Trp  
20 25 30  
Pro Pro Leu Lys  
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<210> 4006  
<211> 35  
<212> PRT  
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<400> 4006  
Met Leu Ser Ile Met Leu Cys Phe Leu Trp Asn Met Ile Ile Leu Leu  
1 5 10 15  
Val Ala Ser Ser Ala Tyr Ser Gly Cys Asp Leu Ala Leu Pro Gly Thr  
20 25 30  
Ser Ala Leu  
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<210> 4007  
<211> 38  
<212> PRT  
<213> Homo sapiens

<400> 4007  
Met Gly Lys Ser Val Leu Leu Gly Ser Ile Tyr Tyr Leu Leu Leu Ser  
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Ser His Leu Cys Lys Ser Ala Ile Ser Thr Lys Met Cys Asp Arg Arg  
20 25 30

Ser Gln Arg Ile Leu Leu  
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<210> 4008  
<211> 41  
<212> PRT  
<213> Homo sapiens

<400> 4008  
Met Tyr Met Lys Met Met Phe Met Leu Phe Ile Ile Leu Pro Phe Ile  
1 5 10 15  
Ile Ser Phe Phe Ile Val Leu Ile Ala Met Ser Phe Ser Ser Leu Ile  
20 25 30  
Phe Phe Pro Gln Cys Leu Ile Cys His  
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<210> 4009  
<211> 24  
<212> PRT  
<213> Homo sapiens

<400> 4009  
Met Ala Ala Ser Ala Leu Leu Leu Cys Val Val Thr Leu Ile Leu Phe  
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Leu Val Leu His Tyr Ile Val Ser  
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<210> 4010  
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<212> PRT  
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<400> 4010  
Met Ser Asn Val Gln Leu Gln Arg  
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Ser Phe Phe Val Phe Leu Gly Asp Leu Tyr Phe Phe Phe Gly Glu Met  
1 5 10 15  
Ser Ile Pro Ile Leu Ala His Phe  
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 <212> PRT  
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<400> 4012  
 Gly Pro Cys Asp Pro Ile Ser Trp Leu Leu Arg Leu Leu Ser Leu Phe  
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<210> 4013  
 <211> 65  
 <212> PRT  
 <213> Homo sapiens

<400> 4013  
 Gly Ser Phe Pro Ser Pro Lys His Arg Gln Arg Gly Gly Glu Gln Phe  
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 Leu Val Leu Phe Leu Phe Leu Lys Trp Cys Leu Tyr Leu Gln Pro Pro  
 20 25 30  
 Gly Gly Leu Pro Trp Pro His Phe Ser Ala Pro Pro Arg His Arg His  
 35 40 45  
 Pro Ser Thr Leu Leu His Val Thr Arg Lys Met Pro Phe Ala Glu Cys  
 50 55 60  
 Thr  
 65

<210> 4014  
 <211> 90  
 <212> PRT  
 <213> Homo sapiens

<400> 4014  
 Met Cys Pro Val Ser Gln Phe Pro Gly Ser Ser Ser Val Cys Cys Pro  
 1 5 10 15  
 Phe Ser Ser Ser Gly Ser Ile Val Arg Glu Pro Arg Met Glu Ala Lys  
 20 25 30  
 Cys Thr Gly His Trp Leu Phe Phe Gln Cys Pro Ser Asp Ser Pro Cys  
 35 40 45  
 Pro Gly Gly Leu Val Pro Ser Leu Ser Val Trp Cys Leu Phe Tyr Lys  
 50 55 60  
 Leu Val Met Thr Ser Gly Asn Gly Pro Gly Phe Gln Ile Ala Ile Pro  
 65 70 75 80  
 Gly Asp Ile Leu Ile Leu Trp Phe Lys Pro  
 85 90



15

Leu Gln

```
<210> 4019
<211> 15
<212> PRT
<213> Homo sapiens
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<400> 4019
Met Pro Ala Leu Ile Asp Gly Ala Glu Arg His Cys Ile Pro Ile
  1             5             10             15
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<210> 4020
<211> 37
<212> PRT
<213> Homo sapiens
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<400> 4020  
Met Leu Leu Ile Phe Thr Phe Ser Ala Leu Val Leu Ser Tyr Pro Leu  
1 5 10 15

Leu Thr Lys Thr Ile  
35

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<210> 4021
<211> 30
<212> PRT
<213> Homo sapiens
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<400> 4021  
Met Ala Leu Val Gly Leu Leu Ser Ala Gly Val Pro Gly Val Ser Leu  
1 5 10 15

Cys Val Gln Ile Phe Ser Tyr Lys Asp Thr Gly Glu Ile Gly  
20 25 30

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<210> 4022
<211> 2
<212> PRT
<213> Homo sapiens
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<400> 4022
Met Leu
1
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<210> 4027  
 <211> 34  
 <212> PRT  
 <213> Homo sapiens

<400> 4027  
 Met Asn Phe Trp His Ser Cys Tyr Leu Leu Arg Asn Cys Thr Val Cys  
   1                  5                  10                  15  
 Phe Leu Cys Ser Ile Phe Phe Phe Phe Pro Gly Met Arg Met Tyr Leu  
                   20                  25                  30  
 Ser Ser

<210> 4028  
 <211> 34  
 <212> PRT  
 <213> Homo sapiens

<400> 4028  
 Met Lys Leu Thr Leu Gly Thr Ala Gly Ser Leu Phe Pro Gln Ala Leu  
   1                  5                  10                  15  
 Tyr Ile Leu Leu Asp Phe Ile Trp Val Asn Phe Ile Asp Gly Ser His  
                   20                  25                  30  
 Tyr Ile

<210> 4029  
 <211> 48  
 <212> PRT  
 <213> Homo sapiens

<400> 4029  
 Met Ala Met Lys Ile Cys Gln Trp Ser Phe Val Cys Gly Leu Leu Gly  
   1                  5                  10                  15  
 Thr Val Phe Leu Leu Cys Leu Val Leu Phe Tyr Phe Cys Tyr Ser Arg  
                   20                  25                  30  
 Lys Leu Arg Ala His Leu Lys Thr Lys Lys Lys Lys Lys Lys Lys  
                   35                  40                  45

<210> 4030  
 <211> 9  
 <212> PRT  
 <213> Homo sapiens

<400> 4030  
 Met Asn Lys Ile Lys Lys Trp Leu Ile

1

5

&lt;210&gt; 4031

&lt;211&gt; 35

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 4031

Met Leu Gly Ser Ser Pro Leu Met Leu Ile Trp Ala Thr Thr Phe Val  
 1 5 10 15

Arg Ser Ser Ile Ala Cys Ser Leu Ser Ala Leu Phe Ser Pro Arg Asn  
 20 25 30

Thr Phe Leu  
 35

&lt;210&gt; 4032

&lt;211&gt; 22

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 4032

Met Val Arg Leu Ser Ser Leu Gln Thr Leu Leu Cys Pro Asp Ser His  
 1 5 10 15

Leu Gly His Phe Ile Gln  
 20

&lt;210&gt; 4033

&lt;211&gt; 20

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 4033

Met Glu Leu Phe Phe Phe Trp Leu Thr Ile Leu Leu Phe Pro Thr Val  
 1 5 10 15

Phe Asn Asn Cys  
 20

&lt;210&gt; 4034

&lt;211&gt; 41

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 4034

Met Gly Asn Val Met Val Thr Phe Ser Arg Leu Ser Cys Leu Ile Pro  
 1 5 10 15

Ser Ala Ser Ser Leu Leu Cys Leu Asn Ser Cys Thr Gly Cys Leu Val  
 20 25 30

His Val His Ile Thr Lys Arg Trp Tyr  
 35 40

<210> 4035  
 <211> 37  
 <212> PRT  
 <213> Homo sapiens

<400> 4035  
 Met Lys Ser Ala Leu Arg Leu Val Leu Leu Phe Ser Phe His Phe Phe  
 1 5 10 15  
 Pro Leu Ile Ile Ser Phe Arg Arg Lys Arg Glu Gly Lys Lys Lys Lys  
 20 25 30  
 Lys Ile Arg Asp Leu  
 35

<210> 4036  
 <211> 44  
 <212> PRT  
 <213> Homo sapiens  
 <400> 4036  
 Met Asn His Thr Leu Arg Asn Gln Cys Gly Cys Pro Leu Arg Val Leu  
 1 5 10 15  
 Leu Phe Phe Leu Leu Pro Leu Ser Lys Ile Arg Tyr Ser Val Ile Lys  
 20 25 30  
 Tyr Ile Ser Ile Lys Val Phe Lys Ser Asp Leu Tyr  
 35 40

<210> 4037  
 <211> 40  
 <212> PRT  
 <213> Homo sapiens  
 <400> 4037  
 Met Ser Lys Gly Leu Arg Lys Glu Ser His Val Phe Phe Leu Leu Phe  
 1 5 10 15  
 Ser Asn Leu Val Ile Thr Lys Gln Cys Tyr Gln Cys Ile Thr Tyr Lys  
 20 25 30  
 His Phe Ile Ile His Phe His Phe  
 35 40

<210> 4038  
 <211> 50  
 <212> PRT  
 <213> Homo sapiens

<400> 4038

Met Leu Thr Phe Leu Val Trp Gln Ala Glu Leu Val Leu Leu Pro Thr  
 1 5 10 15  
 Leu Pro Phe Pro Ile Val Thr Ile Tyr Arg Thr Ser His Cys Cys Leu  
 20 25 30  
 Leu Cys Val Ala Ser Ala Ser Leu Pro Gly Arg Ser Arg Asn Leu Arg  
 35 40 45  
 Ile Ser  
 50

<210> 4039

<211> 42

<212> PRT

<213> Homo sapiens

<400> 4039

Ala Leu Glu Thr Val Val His Phe Ile Leu Leu Ser Leu Leu Val Phe  
 1 5 10 15  
 Met Tyr Asp Leu Leu Ile Gly Lys Asn Leu Ile Met Val Ser Leu Met  
 20 25 30  
 Thr Asn Gln Phe Val Leu Asn Thr Phe Tyr  
 35 40

<210> 4040

<211> 17

<212> PRT

<213> Homo sapiens

<400> 4040

Met Val Ile Thr Val Ala Thr Leu Val Ser Leu Leu Ile Asp Ala Ser  
 1 5 10 15  
 Gly

<210> 4041

<211> 6

<212> PRT

<213> Homo sapiens

<400> 4041

Ser Thr Ile Leu Cys Phe  
 1 5

<210> 4042

<211> 33

<212> PRT

<213> Homo sapiens



<400> 4042

Met Glu Ile Ile Tyr Val Thr Leu Leu Ile Asn Val Val Val Val His  
1 5 10 15

Ala Cys Asn Ser Trp Arg Ser Leu Arg Gln Met Ser Pro Lys Tyr Ser  
20 25 30

Thr

<210> 4043

<211> 20

<212> PRT

<213> Homo sapiens

<400> 4043

Met Thr Arg Gly Thr Leu Pro Pro Thr Leu Leu Gly Leu Ser Phe Leu  
1 5 10 15

Ser Ser Gln Leu  
20

<210> 4044

<211> 138

<212> PRT

<213> Homo sapiens

<400> 4044

Met Glu Lys Ile Asn Phe Leu Val Glu Ile Gln Trp Leu Thr Lys Pro  
1 5 10 15

Ser Leu Ile Leu Ser Gln Pro Ala Gln Leu Arg Pro Val Arg Arg Leu  
20 25 30

Pro Ala Thr Ile Thr Arg Leu Ala Val Ala Met Thr Pro Gly Gln Pro  
35 40 45

Gly Val Pro Pro Asn Leu Gly Thr Gly Lys Ala Gln Lys Ala Gly Gly  
50 55 60

Pro Ser Gln Arg Gly Leu Glu Pro Lys Glu Thr Gln Thr Leu Pro Thr  
65 70 75 80

Thr Gly Thr Leu Pro Ser Ala Thr Pro Arg Pro Thr Lys Asp Gln Gln  
85 90 95

Leu Val Met Met Met Thr Gly Met Lys Thr Gly Met Gly Pro Asn Pro  
100 105 110

Leu Pro Thr Leu Arg Ile Gln Ser Gln Leu Met Gln Ala Ala Leu Ser  
115 120 125

Glu Glu Thr Val Val Leu Val Pro His Pro  
130 135

[illegible]

<400> 4049

Met Lys Leu Leu Ile Val Ile Phe Phe His Phe Leu  
1 5 10

<210> 4050

<211> 62

<212> PRT

<213> Homo sapiens

<400> 4050

Met Leu Phe Ser Leu Leu His Leu Gly Phe Cys Ala Tyr Glu Ser Asn  
1 5 10 15

Leu Ile Leu Phe Gln Met Ala Ile Pro Ile Pro Gly Gln Leu Val Lys  
20 25 30

Lys Ser Phe Phe Pro Ser Leu Ile Trp Val Ala Gly Thr Gly Pro Val  
35 40 45

Pro Val Ser Ser Gly Ala Tyr Pro Thr Leu Phe Ser Leu Gln  
50 55 60

<210> 4051

<211> 4

<212> PRT

<213> Homo sapiens

<400> 4051

Gln Val Trp Leu  
1

<210> 4052

<211> 46

<212> PRT

<213> Homo sapiens

<400> 4052

Thr Arg Gln Arg Leu Lys Ala Leu Ser Leu Arg Asn Cys Val Thr Leu  
1 5 10 15

Val Thr Leu Phe Asp Phe Ser Leu Leu Lys Phe Ser His Met Gly Met  
20 25 30

Val Arg Lys Ile Pro Thr Ser Gln Asp Phe Leu Thr Ile Leu  
35 40 45

<210> 4053

<211> 34

<212> PRT

<213> Homo sapiens

<400> 4053

Met Ala Ala Leu Leu Leu Pro Leu His Leu Cys Leu Cys Ala Pro Asp  
1 5 10 15

Val Ser Leu Cys Val Ser Lys His His Leu Ile Arg Thr Pro Val Gly  
20 25 30

Thr Asp

<210> 4054  
<211> 24  
<212> PRT  
<213> Homo sapiens

<400> 4054  
Met Ser Ile Thr Leu Leu Phe Ala Val Leu Thr Leu Leu Cys Asn Gly  
1 5 10 15

Thr Pro Glu Leu Ile Leu Pro Val  
20

<210> 4055  
<211> 35  
<212> PRT  
<213> Homo sapiens

<400> 4055  
Met Lys His Phe Cys Asn Leu Leu Cys Ile Leu Met Phe Cys Asn Gln  
1 5 10 15

Gln Ser Val Cys Asp Pro Pro Ser Gln Asn Asn Ala Gly Lys Ile Asn  
20 25 30

Leu Arg Tyr  
35

<210> 4056  
<211> 35  
<212> PRT  
<213> Homo sapiens

<400> 4056  
Met Leu Gly Ser Lys Ala Ser Leu Arg Ile Leu Leu Cys Leu Phe Phe  
1 5 10 15

Phe Leu Pro Arg His Ser Ser Ser Asp Asn Cys Cys Pro Ser Cys Thr  
20 25 30

Ala Gly Gly  
35

<210> 4057  
<211> 24

[illegible]



1					5					10					15				
His	Ile	Leu	Leu	Leu	Asp	Gly	Ala	Ala	Trp	Leu	Thr	Leu	Trp	Val	Phe				
		20						25				30							
Gly	Thr	Ser	Phe	Leu	Pro	Phe	Leu	Leu	Cys	Ala	Val	Leu	Leu	Ser	Ala				
		35				40						45							
Val	Gln	Ala	Gln	Ala	Gly	Trp	Leu	Gln	His	Asp	Phe	Gly	His	Leu	Ser				
		50				55				60									
Val	Phe	Ser	Thr	Ser	Lys	Trp	Asn	His	Leu	Leu	His	His	Phe	Val	Ile				
65				70				75						80					
Gly	His	Leu	Lys	Gly	Ala	Pro	Ala	Ser	Trp	Trp	Asn	His	Met	His	Phe				
				85				90						95					
Gln	His	His	Ala	Lys	Pro	Asn	Cys	Phe	Arg	Lys	Asp	Pro	Asp	Ile	Asn				
		100				105						110							
Met	His	Pro	Phe	Phe	Phe	Ala	Leu	Gly	Lys	Ile	Leu	Ser	Val	Glu	Leu				
		115				120						125							
Gly	Lys	Gln	Lys	Lys	Lys	Tyr	Met	Pro	Tyr	Asn	His	Gln	His	Lys	Tyr				
130						135				140									
Phe	Phe	Leu	Ile	Gly	Pro	Pro	Ala	Leu	Leu	Pro	Leu	Tyr	Phe	Gln	Trp				
145				150				155						160					
Tyr	Ile	Phe	Tyr	Phe	Val	Ile	Gln	Arg	Lys	Asn	Gly	Trp	Thr	Trp	Pro				
				165				170				175							
Gly																			

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<210> 4066
<211> 93
<212> PRT
<213> Homo sapiens
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<400> 4066
Met Glu Ser Gln Tyr Val Ser Phe Cys Val Trp Leu Leu Ser Leu Ser
  1                      5                      10                      15

Val Leu Phe Ser Lys Ser Ile Arg Ala Ala Pro Tyr Met Ser Ala Leu
                20                      25                      30

Phe His Pro Cys Cys Thr Ile His Glu Arg Phe Ile Pro Ser Met Leu
          35                      40                      45

Cys His Thr Ser Ala Leu Tyr Ser Ile His Ala Val Pro Tyr Ile Ser
  50                      55                      60

Ala Leu Phe His Pro Cys Cys Thr Ile His Glu Arg Phe Ile Pro Ser
  65                      70                      75                      80

Val Leu His His Thr Ser Val Leu Tyr Ser Phe Ser Gly
                85                      90

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[illegible]

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<210> 4068
<211> 24
<212> PRT
<213> Homo sapiens
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<210> 4069
<211> 27
<212> PRT
<213> Homo sapiens
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<210> 4070
<211> 18
<212> PRT
<213> Homo sapiens
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<210> 4071
<211> 54
<212> PRT
<213> Homo sapiens
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1960





<210> 4074  
 <211> 33  
 <212> PRT  
 <213> Homo sapiens

<400> 4074  
 Met Leu Gly Ser Leu Met Ala Arg Leu Asn Met Leu Val Pro Ser Ser  
 1 5 10 15  
 Trp Ala Gly Ser Leu Ala Ser Ala Pro Met Ile Ala Thr Ala Ala Ile  
 20 25 30

Lys

<210> 4075  
 <211> 37  
 <212> PRT  
 <213> Homo sapiens

<400> 4075  
 Met Ala Asn Leu Pro Leu Ile Leu Ile Met Leu Val Val Gly Met Met  
 1 5 10 15  
 Gly Val Thr Ile Asn Thr Leu Ser Thr His Val Gln Thr Leu Phe Gln  
 20 25 30

Ala Val Phe Ile Tyr  
 35

<210> 4076  
 <211> 38  
 <212> PRT  
 <213> Homo sapiens

<400> 4076  
 Met Lys Lys Pro Ser Ala Ser Lys Met His Thr Leu Ile Leu Pro Ile  
 1 5 10 15  
 Ala Leu Leu Leu Ala Gly Pro Val Gln Leu Thr His Phe Ser Gly Thr  
 20 25 30

Ala Ala Asp Ser Leu Leu  
 35

<210> 4077  
 <211> 22  
 <212> PRT  
 <213> Homo sapiens

<400> 4077  
 Met Ala Thr His Leu Phe Ile Tyr Leu Leu Val Ala Val Phe Cys Tyr  
 1 5 10 15

Ser Cys Ser Val Leu Tyr  
20

<210> 4078  
<211> 12  
<212> PRT  
<213> Homo sapiens

<400> 4078  
Arg Leu Cys Arg Ser Phe Thr Phe Cys Phe Cys Ser  
1 5 10

<210> 4079  
<211> 53  
<212> PRT  
<213> Homo sapiens

<400> 4079  
Met Arg Ile Val Ser Asp Ser Cys Phe Ser Phe Pro Phe Ser Pro Pro  
1 5 10 15  
Leu Ser Asp Thr Tyr Thr Pro Arg Pro His His Thr Tyr Ala His Cys  
20 25 30  
Gly Leu His His Ser His Ser Leu Tyr Phe Val Asn Leu Ala Ala Arg  
35 40 45  
Lys Phe Leu Ser Pro  
50

<210> 4080  
<211> 64  
<212> PRT  
<213> Homo sapiens

<400> 4080  
Met Val Phe His Glu Thr Ser Pro Pro Pro Glu Val Ile Phe Leu Ile  
1 5 10 15  
Leu Val Ile Val Asn Ala Leu Ile Ile Asn Arg Lys Asn Met Phe Leu  
20 25 30  
Asn Asn Leu Gln Met Arg Thr Gln Met Val Val Phe Cys Leu Thr Glu  
35 40 45  
Val Asn Gln Ile Leu Trp Phe Lys Tyr Asn Ala Lys Phe Gln Asp Ser  
50 55 60

<210> 4081

<211> 38  
<212> PRT  
<213> Homo sapiens

<400> 4081  
Met Thr Ser Ala Arg Lys Ala Cys Phe Cys Phe Met Trp Ser Leu Ile  
1 5 10 15  
Leu Gln His Ala His Ser Thr Cys Ser Trp Leu Gly Lys Val Pro Thr  
20 25 30  
Asp Ile Tyr Lys Ala Ser  
35

<210> 4082  
<211> 21  
<212> PRT  
<213> Homo sapiens

<400> 4082  
Met Ile Leu Phe Phe Cys Trp Ala Pro Ile Cys Phe Phe Leu Cys Asn  
1 5 10 15  
Glu Ser Leu Lys Glu  
20

<210> 4083  
<211> 26  
<212> PRT  
<213> Homo sapiens

<400> 4083  
Met Pro Pro Gly Cys Leu Ala Val Thr Glu Cys Leu Phe Leu Leu Ala  
1 5 10 15  
Tyr Trp Ser His Val Ile Phe Val Thr Trp  
20 25

<210> 4084  
<211> 10  
<212> PRT  
<213> Homo sapiens

<400> 4084  
Met Ile His Thr Pro His Asn Ser Pro Ile  
1 5 10

<210> 4085  
<211> 69  
<212> PRT  
<213> Homo sapiens

<220>





<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4092

Met Xaa Trp Leu Lys Leu Ser Phe Phe Val Trp Ala Pro Val Leu Thr  
1 5 10 15

Val Leu Gln Cys Ser Trp Gln Val Glu Trp  
20 25

<210> 4093

<211> 32

<212> PRT

<213> Homo sapiens

<400> 4093

Met Asn His Leu Leu Ile Leu Leu Thr Lys His Leu Ile His Thr Gln  
1 5 10 15

Met Leu Glu Phe Pro Leu Tyr Lys Cys Ser His Ala Ile Gln Leu Phe  
20 25 30

<210> 4094

<211> 119

<212> PRT

<213> Homo sapiens

<400> 4094

Met Cys Tyr Arg Arg Ser Leu Leu Lys Val Leu Met Ser Ile Tyr Leu  
1 5 10 15

Leu Tyr Lys Ala Ile Tyr Ala Thr Gly Ser Leu Lys Ile Gln Tyr Cys  
20 25 30

Ser Ser Ser Lys Arg Ser Thr Lys Pro Arg Val Ser Ser Leu Ile Ser  
35 40 45

Leu Tyr Ser Lys Asn Asp Pro Ser Met Gly Trp Leu Asn Thr Asp Ile  
50 55 60

Glu Gly Ile Leu Pro Gln Lys Ile His Leu Phe Val Ala Gly Asn Phe  
65 70 75 80

Pro Leu Leu Ser Cys Val Ile Ser Phe Leu Leu Leu Ala Thr Thr His  
85 90 95

His Trp Gly Leu Trp Lys Ile Ile Phe Leu Phe Gly Asn Glu Trp Lys  
100 105 110

Ser Lys Arg Pro Tyr Tyr Phe  
115

<210> 4095  
 <211> 17  
 <212> PRT  
 <213> Homo sapiens

<400> 4095  
 Met Thr Lys Ser Val Phe Phe Ser Phe Leu Ser Leu Ser Leu Ser Leu  
 1 5 10 15

Gly

<210> 4096  
 <211> 56  
 <212> PRT  
 <213> Homo sapiens

<400> 4096  
 Met Trp Lys Glu Asn Ile Ser Phe Ser Phe Phe Ile Lys Ile Gln Val  
 1 5 10 15

Ile Leu Leu Leu Tyr Glu Gln Phe Phe Leu Ile Gly His Val Ala Lys  
 20 25 30

Asn Thr Ala Tyr Ser Lys Cys Val Ser Cys Cys His Asp Val Tyr Pro  
 35 40 45

Tyr Asn Asn Ser Val Thr Lys Val  
 50 55

<210> 4097  
 <211> 89  
 <212> PRT  
 <213> Homo sapiens

<400> 4097  
 Leu Gly Leu Trp Pro Ile Trp Tyr Ala Ser Cys Val Cys Met Val Cys  
 1 5 10 15

Ala Val Ser Leu His Leu Phe Tyr Thr Ser Trp Gly His Gly Pro Gln  
 20 25 30

Leu Leu Asp Arg Thr Leu Phe Ser Asn Pro Ala Leu Gly Asp Gln Pro  
 35 40 45

Ser Leu Ala Asn Ile Cys Met Phe Ser Tyr Ser Cys Leu Leu Lys Gly  
 50 55 60

Pro Thr Gln Arg Leu Asp Phe Leu Leu Pro Leu Cys Val Gly Thr Val  
 65 70 75 80

Cys Asp Ile Cys Lys Lys Cys Ala Asn  
 85

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Gly Lys Gln Asp Leu Ala Leu His  
35 40

<210> 4102  
<211> 22  
<212> PRT  
<213> Homo sapiens

<400> 4102  
Met Leu Leu Ser Pro Phe Ile Phe Cys Phe Phe Leu Ile Thr Val Gly  
1 5 10 15  
Leu Ile Glu Asn Trp Ser  
20

<210> 4103  
<211> 65  
<212> PRT  
<213> Homo sapiens

<400> 4103  
Met Asn Leu Ser Lys Ala Pro Ala Leu Arg Phe Leu Trp Ser Cys Ser  
1 5 10 15  
Ser Ile Thr Gly Ala Ala Gly Asn Leu Asn Thr Thr Ser Trp Ser Thr  
20 25 30  
Arg Leu Trp Pro Asn Gly Arg Arg Lys Lys Leu Ser Ser Gly Trp Ser  
35 40 45  
Ser Trp Ala Leu Gly His Leu Phe Thr Gly Lys Gly Phe Tyr Leu Asn  
50 55 60  
Glu  
65

<210> 4104  
<211> 34  
<212> PRT  
<213> Homo sapiens

<400> 4104  
Met Val Tyr Arg Ile Gln His Ala Asp Thr Trp Trp Asp Leu Leu Leu  
1 5 10 15  
Leu Gly Phe Cys Tyr Thr Arg Val Ser Val Val Ser Ala Ser Ile Tyr  
20 25 30  
Val Cys

<210> 4105







[illegible]

Ser

<400> 4116  
Phe Phe Phe Phe Phe Phe Ser Gln Arg Leu Thr Lys Leu  
1 5 10

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<400> 4117
Met Arg Arg Asn Met Met Asn Pro Leu Thr Phe Met Leu Leu Gly Cys
  1             5             10             15

Ala Cys Leu Arg Trp Leu His Leu Asn Ile Leu Thr Arg Ser Ala Lys
      20             25             30

Met Leu Arg Arg Ser Thr Val Ala
    35             40

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<210> 4118
<211> 14
<212> PRT
<213> Homo sapiens
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<220>
<221> SITE
<222> (12)
<223> Xaa equals any of the naturally occurring L-amino acids
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1974

<210> 4119  
 <211> 207  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (170)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 4119  
 Ala Arg Ala Ala Val Val Val Pro Ala Glu Trp Ile Lys Asn Trp Glu  
 1 5 10 15  
 Lys Ser Gly Arg Gly Glu Phe Leu His Leu Cys Arg Ile Leu Ser Glu  
 20 25 30  
 Asn Lys Ser His Asp Ser Ser Thr Tyr Arg Asp Phe Gln Gln Ala Leu  
 35 40 45  
 Tyr Glu Leu Ser Tyr His Val Ile Lys Gly Asn Leu Lys His Glu Gln  
 50 55 60  
 Ala Ser Asn Val Leu Ser Asp Ile Ser Glu Phe Arg Glu Asp Met Pro  
 65 70 75 80  
 Ser Ile Leu Ala Asp Val Phe Cys Ile Leu Asp Ile Glu Thr Asn Cys  
 85 90 95  
 Leu Glu Glu Lys Ser Lys Arg Asp Tyr Phe Thr Gln Leu Val Leu Ala  
 100 105 110  
 Cys Leu Tyr Leu Val Ser Asp Thr Val Leu Lys Glu Arg Leu Asp Pro  
 115 120 125  
 Glu Thr Leu Glu Ser Leu Gly Leu Ile Lys Gln Ser Gln Gln Phe Asn  
 130 135 140  
 Gln Lys Ser Val Lys Ile Lys Thr Lys Leu Phe Tyr Lys Gln Gln Lys  
 145 150 155 160  
 Phe Asn Leu Leu Arg Glu Glu Asn Glu Xaa Tyr Ala Lys Leu Ile Ala  
 165 170 175  
 Glu Leu Gly Gln Asp Leu Ser Gly Ser Ile Thr Ser Asp Leu Ile Leu  
 180 185 190  
 Glu Asn Ile Lys Ser Leu Ile Gly Cys Phe Asn Leu Gly Ser Gln  
 195 200 205

<210> 4120  
 <211> 33  
 <212> PRT  
 <213> Homo sapiens

<400> 4120  
 Met Leu Leu Leu Thr Met Gly Phe Ile Gln Ile Leu Pro Val Phe Leu  
 1 5 10 15

05050003-04004

Leu Val Tyr Phe Phe Tyr Ser Arg Val Gln Ser Lys Ile Pro His Cys  
 20 25 30

Ile

<210> 4121  
 <211> 8  
 <212> PRT  
 <213> Homo sapiens

<400> 4121  
 Met Gly Leu Val Leu Glu Trp Cys  
 1 5

<210> 4122  
 <211> 36  
 <212> PRT  
 <213> Homo sapiens

<400> 4122  
 Met Phe Leu Leu Ala Ile Leu Leu Pro Val Phe Leu Val Ala Trp Gly  
 1 5 10 15

Gly Lys Thr Lys Glu Ser Gly Trp Arg Ala Glu Gly Cys Arg Ala Val  
 20 25 30

Thr Leu Leu Leu  
 35

<210> 4123  
 <211> 29  
 <212> PRT  
 <213> Homo sapiens

<400> 4123  
 Met Ala Phe Leu Thr Met Arg Ile Leu Phe Phe Ala Tyr Ser Phe Ser  
 1 5 10 15

Lys Lys His Phe Leu Met Glu Ile Ser Glu His Gly His  
 20 25

<210> 4124  
 <211> 28  
 <212> PRT  
 <213> Homo sapiens

<400> 4124  
 Met Pro Val Thr Glu Leu Leu Gln Leu Leu Leu Thr Gln Lys Met  
 1 5 10 15

Lys Arg Leu Leu Asp Trp Gln Gln Asn Lys Val Glu  
 20 25



[illegible]

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<210> 4126
<211> 31
<212> PRT
<213> Homo sapiens

<400> 4126
Met Gly Arg Cys Val Trp Met His Phe Ser Cys Ser Cys Cys Phe Ala
 1             5             10             15

Phe Pro Asp Ser Thr Ile Pro Arg Gly Arg Gly Trp Ser Ile Leu
                20             25             30

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<400> 4127
Met  Ala  Asn  Asp  Pro  Leu  Glu  Gly  Phe  His  Glu  Val  Asn  Leu  Ala  Ser
  1          5          10          15

Pro  Thr  Ser  Pro  Asp  Leu  Leu  Gly  Val  Tyr  Glu  Ser  Gly  Thr  Gln  Glu
          20          25          30

Gln  Thr  Thr  Ser  Pro  Ser  Val  Ile  Tyr  Arg  Pro  His  Pro  Ser  Ala  Leu
          35          40          45

Ser  Ser  Val  Pro  Ile  Gln  Ala  Asn  Ala  Leu  Asp  Val  Ser  Glu  Leu  Pro
          50          55          60

Thr  Gln  Pro  Val  Tyr  Ser  Ser  Pro  Arg  Arg  Leu  Asn  Cys  Ala  Glu  Ile
  65          70          75          80

Ser  Ser  Ile  Ser  Phe  His  Val  Thr  Asp  Pro  Ala  Pro  Cys  Ser  Thr  Ser
          85          90          95

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Gly Val Thr Ala Gly Leu Thr Lys Leu Thr Thr Arg Lys Asp Asn Tyr  
100 105 110

Asn Ala Glu Arg Glu Phe Leu Gln Gly Ala Thr Ile Thr Glu Ala Cys  
115 120 125

Asp Gly Ser Asp Asp Ile Phe Gly Leu Ser Thr Asp Ser Leu Ser Arg  
130 135 140

Leu Arg Ser Pro Ser Val Leu Glu Val Arg Glu Lys Gly Tyr Glu Arg  
145 150 155 160

Leu Lys Glu Glu Leu Ala Lys Ala Gln Arg Glu Leu Lys Leu Lys Asp  
165 170 175

Glu Glu Cys Glu Arg Leu Ser Lys Val Arg Asp Gln Leu Gly Gln Glu  
180 185 190

Leu Glu Glu Leu Thr Ala Ser Leu Phe Glu Glu Ala His Lys Met Val  
195 200 205

Arg Glu Ala Asn Ile Lys Gln Ala Thr Ala Glu Lys Gln Leu Lys Glu  
210 215 220

Ala Gln Gly Lys Ile Asp Val Leu Gln Ala Glu Val Ala Ala Leu Lys  
225 230 235 240

Thr Leu Val Leu Ser Ser Ser Pro Thr Ser Pro Thr Gln Glu Pro Leu  
245 250 255

Pro Gly Gly Lys Thr Pro Phe Lys Lys Gly His Thr Arg Asn Lys Ser  
260 265 270

Thr Ser Ser Ala Met Ser Gly Ser His Gln Asp Leu Ser Val Ile Gln  
275 280 285

Pro Ile Val Lys Asp Cys Lys Glu Ala Asp Leu Ser Leu Tyr Asn Glu  
290 295 300

Phe Arg Leu Trp Lys Asp Glu Pro Thr Met Asp Arg Thr Val Ser Phe  
305 310 315 320

Leu Arg Gln Asn Leu Pro Gly Arg Tyr Leu Ser Met Phe Asn Ile Leu  
325 330 335

Lys Lys

<210> 4128

<211> 17

<212> PRT

<213> Homo sapiens

<400> 4128

Met Met Arg Leu Leu Leu Trp Leu Met Ile Pro Trp Lys Ala Ser Met  
1 5 10 15

Lys

[illegible]

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<210> 4130
<211> 28
<212> PRT
<213> Homo sapiens
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<210> 4131
<211> 188
<212> PRT
<213> Homo sapiens
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1979



[illegible]

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<210> 4136
<211> 318
<212> PRT
<213> Homo sapiens
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1981

180					185					190					
Lys	Asn	Leu	Leu	Met	Gln	Ala	Arg	Trp	Phe	His	Ile	Leu	Gly	Met	Met
	195						200					205			
Met	Phe	Ile	Trp	Ser	Ser	Ala	His	Gln	Tyr	Lys	Cys	His	Val	Ile	Leu
	210					215					220				
Gly	Asn	Leu	Arg	Lys	Asn	Lys	Ala	Gly	Val	Val	Ile	His	Cys	Asn	His
225					230					235					240
Arg	Ile	Pro	Phe	Gly	Asp	Trp	Phe	Glu	Tyr	Val	Ser	Ser	Pro	Asn	Tyr
				245					250					255	
Leu	Ala	Glu	Leu	Met	Ile	Tyr	Val	Ser	Met	Ala	Val	Thr	Phe	Gly	Phe
			260					265					270		
His	Asn	Leu	Thr	Trp	Trp	Leu	Val	Val	Thr	Asn	Val	Phe	Phe	Asn	Gln
		275					280					285			
Ala	Leu	Ser	Ala	Phe	Leu	Ser	His	Gln	Phe	Tyr	Lys	Ser	Lys	Phe	Val
		290				295					300				
Ser	Tyr	Pro	Lys	His	Arg	Lys	Ala	Phe	Leu	Pro	Phe	Leu	Phe		
305					310					315					
<210> 4137															
<211> 36															
<212> PRT															
<213> Homo sapiens															
<400> 4137															
Met	Asp	Leu	Lys	Gly	Arg	Thr	Lys	Cys	Ser	Gln	Tyr	Phe	Leu	Leu	Ser
1				5					10					15	
Val	Val	Leu	Leu	Leu	Ser	Met	Gly	Ile	Val	Gly	Ser	Ile	Ile	Glu	Thr
			20					25					30		
Leu	Gly	Lys	Leu												
		35													
<210> 4138															
<211> 109															
<212> PRT															
<213> Homo sapiens															
<400> 4138															
Met	Glu	Leu	Thr	Ile	Phe	Ile	Leu	Arg	Leu	Ala	Ile	Tyr	Ile	Leu	Thr
1				5					10					15	
Phe	Pro	Leu	Tyr	Leu	Leu	Asn	Phe	Leu	Gly	Leu	Trp	Ser	Trp	Ile	Cys
			20					25					30		
Lys	Lys	Trp	Phe	Pro	Tyr	Phe	Leu	Val	Arg	Phe	Thr	Val	Ile	Tyr	Asn
		35					40					45			
Glu	Gln	Met	Ala	Ser	Lys	Lys	Arg	Glu	Leu	Phe	Ser	Asn	Leu	Gln	Glu

60

Arg Ser Arg Asp Arg Glu Thr Gly Ser His Cys Val Ala  
100 105

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<210> 4139
<211> 32
<212> PRT
<213> Homo sapiens
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<400> 4139
Met Met Val Ile Ile Val Lys Lys Ile Leu Leu Ile Val Leu Arg Glu
  1                               10                          15

Ser Thr Thr Leu Cys Gln Ile Pro Cys Phe Phe Leu Lys Pro Leu Lys
      20                25                30

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<210> 4140
<211> 73
<212> PRT
<213> Homo sapiens
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<400> 4140
Met Ala Asn Ile His Trp Ala Ala Gln Thr Val Leu Leu Leu Pro His
  1                               5               10               15

Leu Ala Pro Ala Phe Trp Gly Pro Ala Ala His Glu Leu Ile Pro Phe
                20                25                30

Gln Ala Ser Leu Gly Tyr Ile His Pro Leu Trp Leu Leu Thr His Gly
      35                40                45

Val Lys Pro Arg Ala His Phe Ser Tyr Gln Pro Gly Leu Gly His Ile
  50                55                60

Tyr Val Met Leu Leu Pro Ser Phe Thr
  65                70

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<210> 4141
<211> 34
<212> PRT
<213> Homo sapiens
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<400> 4141  
Met Ile Ala Gln Leu Gln Ser Pro Cys Ser Phe Tyr Leu Ile Met Leu  
1 5 10 15

005000-01204

Ala Leu Phe Ser Met Ser Val Trp Thr His Ile Lys Thr Pro Ser Cys  
20 25 30

Thr Leu

<210> 4142  
<211> 69  
<212> PRT  
<213> Homo sapiens

<400> 4142  
Met Ala Ser Leu Trp Leu Val Ser Trp Asp Leu Leu Leu Leu Leu Ser  
1 5 10 15  
His Asp Cys Arg Leu Ala Arg Ile Trp Leu Trp Met Ala Trp Thr Gln  
20 25 30  
Ala Ser Arg Ser Ser Tyr Val Val Ala Ser Lys Cys His Val Trp Pro  
35 40 45  
Val Ala Asp Thr Ile Ile Lys Leu Leu Val Leu Phe Phe Phe Arg Cys  
50 55 60  
Phe Phe Leu Leu Ala  
65

<210> 4143  
<211> 98  
<212> PRT  
<213> Homo sapiens

<400> 4143  
Met Leu Ala Met Lys Leu Leu Val Leu Trp Thr Val Val Cys Pro Gln  
1 5 10 15  
Leu Val Phe Leu Gln Lys Gln Leu His Lys Thr Thr Pro Asn Leu Pro  
20 25 30  
Gln Ser Ser Gln Glu Leu Val Ser Asp Gln Arg Val Arg Gln Ser Pro  
35 40 45  
Arg Pro Gln Lys Leu Leu Phe Leu Pro Ala Pro Arg Gln Phe His Arg  
50 55 60  
Leu Pro Ser Arg Gly Arg Thr Thr Ala Lys Val Ser Ser Ser Thr Ser  
65 70 75 80  
Gly Thr Lys Trp Ser Trp Gly Leu Cys Tyr Gly Thr Ser Leu Thr Glu  
85 90 95  
Cys Gln



<210> 4144  
 <211> 38  
 <212> PRT  
 <213> Homo sapiens

<400> 4144  
 Met Ser Val Cys Val Leu Tyr Leu Gln Ser Leu Val Ile Val Pro Tyr  
     1                    5                    10                    15  
 Ile Thr Cys Lys Gln Ile Leu Tyr Phe Ile Leu Ala Tyr Leu Thr Glu  
                     20                    25                    30  
 His Ile Thr Gln Lys Lys  
                     35

<210> 4145  
 <211> 46  
 <212> PRT  
 <213> Homo sapiens

<400> 4145  
 Met Pro Gly Lys Gln Asp Trp Leu Phe Leu Gln Lys Asn Arg Thr Val  
     1                    5                    10                    15  
 Pro Tyr Ile Trp Pro Val Gln Leu Val Tyr Leu Met Pro Met Phe Leu  
                     20                    25                    30  
 Leu Arg Val Met His Ala Tyr His Leu Phe Gln Arg Arg Asp  
                     35                    40                    45

<210> 4146  
 <211> 38  
 <212> PRT  
 <213> Homo sapiens

<400> 4146  
 Met Cys His His Thr Gln Leu Ser Ser Phe Leu Leu Asn Phe Phe Ser  
     1                    5                    10                    15  
 Glu Phe Ser Thr Leu Leu Val Leu Thr Ala Ile Ser Met Phe Cys Phe  
                     20                    25                    30  
 Ser Leu Val Thr Tyr Ala  
                     35

<210> 4147  
 <211> 23  
 <212> PRT  
 <213> Homo sapiens

<400> 4147  
 Met Phe Val Ala Val Phe Leu Phe Cys Phe Val Phe Cys Lys Phe His  
     1                    5                    10                    15  
 Ser Ala Ile Ser Val Phe Asn

<210> 4148  
 <211> 217  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (156)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
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<220>  
 <221> SITE  
 <222> (211)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 4148  
 Met Leu Pro Val Val Trp Ile Ile Leu Cys Ser Ser Ala Gln Phe Pro  
   1                  5                  10                  15  
 His Leu Trp Lys Leu His Ser His Leu Ala Gln Met Ser His Ser Ser  
           20                  25                  30  
 Leu Leu Pro Leu Glu Asn Arg Ser Leu Ser Leu Cys Arg Thr Arg Cys  
           35                  40                  45  
 Ser Asp Pro Leu Ser Cys Thr Leu Ala Pro Phe Leu Pro Pro Thr Val  
           50                  55                  60  
 Ser Leu Ser Thr Leu Ser Ser Ala Leu Gln Ser Ser Phe Cys Ser Phe  
           65                  70                  75                  80  
 Phe Leu Arg Arg Gln Cys Arg Pro Ser Cys Ser Pro Val Pro Gly Val  
                   85                  90                  95  
 His Ile Ser Asn Phe Gly Ser Ala Ser Trp Thr Cys Pro Cys Gly Cys  
           100                  105                  110  
 Leu Ala Ile His Ser Asn Pro Ala Ser Pro Lys Gly Met Ile Leu Pro  
           115                  120                  125  
 Tyr Phe Leu Leu Thr Gln Leu Cys Gly Gln Ser Ser Arg Thr Asn Gly  
           130                  135                  140  
 Ser Lys Leu Pro Pro Asn Thr His Pro Arg Leu Xaa Ala Trp Ala Pro  
           145                  150                  155                  160  
 Leu Ala Ser Pro Arg Ala Ala His Ile Lys Val Gln Leu Gly Ser Glu  
                   165                  170                  175  
 Leu Leu Gln Glu Ala Ser Pro Ala Leu Leu Cys Arg Arg Thr Leu Leu  
           180                  185                  190

Leu His Thr Xaa Ser Pro Ile Leu Trp Gln Ala Leu Leu Tyr Pro Gln  
 195 200 205

Ala Ser Xaa Gln Thr Ser Leu Thr Cys  
 210 215

<210> 4149  
 <211> 35  
 <212> PRT  
 <213> Homo sapiens

<400> 4149  
 Met Met Ser Thr Ser Gln Thr Ala Pro Leu Trp Cys Leu Trp Pro Pro  
 1 5 10 15

Ser Arg Met Thr Leu Ala Val Ser Leu Ser Pro Ala Ser Arg Arg Arg  
 20 25 30

Gly Ser Arg  
 35

<210> 4150  
 <211> 40  
 <212> PRT  
 <213> Homo sapiens

<400> 4150  
 Met Lys His Phe Leu Phe Phe Ser Phe Leu Ala Phe Leu Ser Leu Tyr  
 1 5 10 15

Leu Met Tyr Thr Trp Lys Leu Gln Gly Leu Ser Thr Gly His Ala Ser  
 20 25 30

Leu Tyr Arg Ser His Leu Cys Leu  
 35 40

<210> 4151  
 <211> 35  
 <212> PRT  
 <213> Homo sapiens

<400> 4151  
 Met Glu Asn Met Tyr Trp Gly Pro Leu Gly Leu Thr Ser Glu Ile Val  
 1 5 10 15

Leu Phe Ile Leu Leu His Leu Ala Phe Gln Leu Met Glu Lys Tyr Lys  
 20 25 30

Phe Lys Phe  
 35

<210> 4152  
 <211> 34

<212> PRT  
<213> Homo sapiens

<400> 4152  
Gln Lys Leu Leu Leu Phe Tyr Ala Gln Ser Asp Ile Glu Ser Phe His  
1 5 10 15  
Leu Phe Leu Ser Pro Leu Leu Leu Leu Ser Asp Met Leu Leu Gln Phe  
20 25 30  
Leu Thr

<210> 4153  
<211> 44  
<212> PRT  
<213> Homo sapiens

<400> 4153  
Gly Leu Gly Ser Gly Glu Trp Phe Pro Ala Leu Gln Leu Met Trp Leu  
1 5 10 15  
Leu Arg Gly Thr Gln Ala Leu Phe His Tyr Leu Pro Asn Asn Gly Gly  
20 25 30  
Pro Val Phe Asn Cys Ser Thr Thr Thr Gln Asn Thr  
35 40

<210> 4154  
<211> 31  
<212> PRT  
<213> Homo sapiens

<400> 4154  
Met Leu Leu Arg Val Arg Arg Val Gly Ile Ile Cys His Leu Glu Phe  
1 5 10 15  
Leu Cys Leu Ala Asp Leu Ser Ser Asp Leu Pro Ile Tyr Gln Arg  
20 25 30

<210> 4155  
<211> 46  
<212> PRT  
<213> Homo sapiens

<400> 4155  
Met Ser Pro Gly Gly Phe Leu Leu Leu Thr Ser Leu Gly Pro Thr Ile  
1 5 10 15  
Gly Phe Leu Ala Gly Leu Arg Ser Leu Arg Glu Val Ala Ile Ser Lys  
20 25 30  
Arg Lys Asp Phe Tyr Leu Arg Leu Ser Gly Lys Glu Ala Glu  
35 40 45

[illegible][illegible][illegible][illegible][illegible][illegible][illegible][illegible]

項目	単位	数値	単位	数値	
1. 総人口	人	1,234,567	2. 男性人口	人	612,345
3. 女性人口	人	622,222	4. 人口密度	人/平方キロメートル	123.4
5. 出生率	人/1,000人	10.5	6. 死亡率	人/1,000人	8.2
7. 自然増減率	人/1,000人	2.3	8. 出生率	人/1,000人	10.5
9. 死亡率	人/1,000人	8.2	10. 自然増減率	人/1,000人	2.3
11. 出生率	人/1,000人	10.5	12. 死亡率	人/1,000人	8.2
13. 自然増減率	人/1,000人	2.3	14. 出生率	人/1,000人	10.5
15. 死亡率	人/1,000人	8.2	16. 自然増減率	人/1,000人	2.3
17. 出生率	人/1,000人	10.5	18. 死亡率	人/1,000人	8.2
19. 自然増減率	人/1,000人	2.3	20. 出生率	人/1,000人	10.5
21. 死亡率	人/1,000人	8.2	22. 自然増減率	人/1,000人	2.3
23. 出生率	人/1,000人	10.5	24. 死亡率	人/1,000人	8.2
25. 自然増減率	人/1,000人	2.3	26. 出生率	人/1,000人	10.5
27. 死亡率	人/1,000人	8.2	28. 自然増減率	人/1,000人	2.3
29. 出生率	人/1,000人	10.5	30. 死亡率	人/1,000人	8.2
31. 自然増減率	人/1,000人	2.3	32. 出生率	人/1,000人	10.5
33. 死亡率	人/1,000人	8.2	34. 自然増減率	人/1,000人	2.3
35. 出生率	人/1,000人	10.5	36. 死亡率	人/1,000人	8.2
37. 自然増減率	人/1,000人	2.3	38. 出生率	人/1,000人	10.5
39. 死亡率	人/1,000人	8.2	40. 自然増減率	人/1,000人	2.3
41. 出生率	人/1,000人	10.5	42. 死亡率	人/1,000人	8.2
43. 自然増減率	人/1,000人	2.3	44. 出生率	人/1,000人	10.5
45. 死亡率	人/1,000人	8.2	46. 自然増減率	人/1,000人	2.3
47. 出生率	人/1,000人	10.5	48. 死亡率	人/1,000人	8.2
49. 自然増減率	人/1,000人	2.3	50. 出生率	人/1,000人	10.5
51. 死亡率	人/1,000人	8.2	52. 自然増減率	人/1,000人	2.3
53. 出生率	人/1,000人	10.5	54. 死亡率	人/1,000人	8.2
55. 自然増減率	人/1,000人	2.3	56. 出生率	人/1,000人	10.5
57. 死亡率	人/1,000人	8.2	58. 自然増減率	人/1,000人	2.3
59. 出生率	人/1,000人	10.5	60. 死亡率	人/1,000人	8.2
61. 自然増減率	人/1,000人	2.3	62. 出生率	人/1,000人	10.5
63. 死亡率	人/1,000人	8.2	64. 自然増減率	人/1,000人	2.3
65. 出生率	人/1,000人	10.5	66. 死亡率	人/1,000人	8.2
67. 自然増減率	人/1,000人	2.3	68. 出生率	人/1,000人	10.5
69. 死亡率	人/1,000人	8.2	70. 自然増減率	人/1,000人	2.3
71. 出生率	人/1,000人	10.5	72. 死亡率	人/1,000人	8.2
73. 自然増減率	人/1,000人	2.3	74. 出生率	人/1,000人	10.5
75. 死亡率	人/1,000人	8.2	76. 自然増減率	人/1,000人	2.3
77. 出生率	人/1,000人	10.5	78. 死亡率	人/1,000人	8.2
79. 自然増減率	人/1,000人	2.3	80. 出生率	人/1,000人	10.5
81. 死亡率	人/1,000人	8.2	82. 自然増減率	人/1,000人	2.3
83. 出生率	人/1,000人	10.5	84. 死亡率	人/1,000人	8.2
85. 自然増減率	人/1,000人	2.3	86. 出生率	人/1,000人	10.5
87. 死亡率	人/1,000人	8.2	88. 自然増減率	人/1,000人	2.3
89. 出生率	人/1,000人	10.5	90. 死亡率	人/1,000人	8.2
91. 自然増減率	人/1,000人	2.3	92. 出生率	人/1,000人	10.5
93. 死亡率	人/1,000人	8.2	94. 自然増減率	人/1,000人	2.3
95. 出生率	人/1,000人	10.5	96. 死亡率	人/1,000人	8.2
97. 自然増減率	人/1,000人	2.3	98. 出生率	人/1,000人	10.5
99. 死亡率	人/1,000人	8.2	100. 自然増減率	人/1,000人	2.3

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<400> 4159
Met Xaa Phe Trp Ala Ala Met Gly Leu Leu Glu His Trp Cys Val His
      1                      5              10              15
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Gln Gly Lys Val Ser  
35

<211> 37

<212> PRT

<213> Homo sapiens

**<220>**

<221> SITE

<222> (2)

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<400> 4160
Met Xaa Phe Trp Ala Ala Met Gly Leu Leu Glu His Trp Cys Val His
  1             5             10             15
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Leu His Ser Met Cys Trp Asn Pro Gln Glu Ser Gly Gly Ala His Ile  
20 25 30

Gln Gly Lys Val Ser  
35

<210> 4161

<211> 59

<212> PRT

<213> Homo sapiens

<400> 4161

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<400> 4161
Met Leu Ala Arg Leu Arg Gln Val Ser Thr Leu Cys Cys Leu Ser Leu
  1                   5                10               15
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Ala Gln Thr Gly His Phe Val Trp Leu Phe Pro Ser Thr Arg Pro Gln  
20 25 30

Trp Glu Gln Ala Ser Leu Pro Gln Ala Ser Glu Thr Asp His Pro Ile  
35 40 45

Pro Pro Ser Pro Val Asn Leu Pro Leu Phe Pro  
50 55

<210> 4162

<211> 24

<212> PRT

<213> Homo sapiens

<400> 4162

Leu Phe His Ile Thr Glu Trp Asp Leu Cys Phe Glu Glu Thr Asn Pro  
1 5 10 15

Thr Asp Thr Leu Ile Leu Asp Phe  
20

<210> 4163

<211> 56

<212> PRT

<213> Homo sapiens

<400> 4163

Met Lys Ser His Ser Val Trp Leu Pro Thr Leu Tyr Cys Ala Val Val  
1 5 10 15

Lys Val Tyr Leu Cys Val Gly Cys Ser His Pro Leu Val Ser Thr Gly  
20 25 30

Ile Gly Pro Arg Ser Leu His Arg Ser Pro Ala Gly Met Pro Val Ser  
35 40 45

His Ser Ala Pro Cys Lys Thr His  
50 55

<210> 4164

<211> 52

<212> PRT

<213> Homo sapiens

<400> 4164

Met Ile Leu Met Ser Leu Leu Pro Ile Phe Trp Leu Val Thr Pro Leu  
1 5 10 15

His Ile Ile Ser Ser Ser Pro Phe Val Leu Cys Val Leu Trp Gly Val  
20 25 30

Cys Val Cys Val Cys Val Cys Val Val Gly Glu Gly Cys Phe Arg Asn  
35 40 45

Glu Arg Glu Lys  
50

<210> 4165

<211> 477

<212> PRT

<213> Homo sapiens

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<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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 <222> (90)  
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 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (341)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 4165  
 Met Ala Leu Arg His Ser Ala Cys Arg Arg Phe Ser Leu Ala Glu Phe  
     1                    5                    10                    15  
 Ala Gln Xaa Gln Ala Arg Ala Arg His Glu Lys Leu Arg Gln Arg Leu  
           20                    25                    30  
 Lys Glu Glu Lys Leu Glu Met Leu Gln Trp Lys Leu Ser Ala Ala Gly  
       35                    40                    45  
 Val Pro Gln Ala Glu Ala Gly Leu Pro Pro Val Val Asp Ala Ile Xaa  
       50                    55                    60  
 Asp Ala Ser Val Glu Glu Asp Leu Xaa Val Ala Xaa Ala Gly Gly Arg  
       65                    70                    75                    80  
 Leu Glu Glu Val Ser Phe Leu Gln Pro Xaa Pro Ala Arg Arg Arg Arg  
           85                    90                    95  
 Ala Leu Leu Arg Ala Ser Gly Val Arg Arg Ile Asp Arg Glu Glu Xaa  
       100                    105                    110  
 Arg Glu Leu Gln Ala Leu Arg Gln Ser Arg Glu Asp Cys Gly Cys His



115	120	125
Cys Asp Arg Ile Cys Asp Pro Glu Thr Cys Ser Cys Xaa Leu Ala Gly		
130	135	140
Ile Lys Cys Gln Met Asp His Thr Ala Phe Pro Cys Gly Cys Cys Arg		
145	150	155
Glu Gly Cys Glu Asn Pro Met Gly Arg Val Glu Phe Asn Gln Ala Arg		
	165	170
Val Gln Thr His Xaa Ile His Thr Leu Thr Arg Leu Gln Leu Glu Gln		
	180	185
Glu Ala Glu Ser Phe Arg Glu Leu Glu Ala Pro Ala Gln Gly Ser Pro		
	195	200
Pro Ser Pro Gly Glu Glu Ala Leu Val Pro Thr Phe Pro Leu Ala Lys		
	210	215
Pro Pro Met Asn Asn Glu Leu Gly Asp Asn Ser Cys Ser Ser Asp Met		
	225	230
Thr Asp Ser Ser Thr Ala Ser Ser Ser Ala Ser Gly Thr Ser Glu Ala		
	245	250
Pro Asp Cys Pro Thr His Pro Gly Leu Pro Gly Pro Gly Phe Gln Pro		
	260	265
Gly Val Asp Asp Asp Ser Leu Ala Arg Ile Leu Ser Phe Ser Asp Ser		
	275	280
Asp Phe Gly Gly Glu Glu Glu Glu Glu Glu Gly Ser Val Gly Asn		
	290	295
Leu Asp Asn Leu Ser Cys Phe His Pro Ala Asp Ile Phe Gly Thr Ser		
	305	310
Asp Pro Gly Gly Leu Ala Ser Trp Thr His Ser Tyr Ser Gly Cys Ser		
	325	330
Phe Thr Ser Gly Xaa Leu Asp Glu Asn Ala Asn Leu Asp Ala Ser Cys		
	340	345
Phe Leu Asn Gly Gly Leu Glu Gly Ser Arg Glu Gly Ser Leu Pro Gly		
	355	360
Thr Ser Val Pro Pro Ser Met Asp Ala Gly Arg Ser Ser Ser Val Asp		
	370	375
Leu Ser Leu Ser Ser Cys Asp Ser Phe Glu Leu Leu Gln Ala Leu Pro		
	385	390
Asp Tyr Ser Leu Gly Pro His Tyr Thr Ser Gln Lys Val Ser Asp Ser		
	405	410
Leu Asp Asn Ile Glu Ala Pro His Phe Pro Leu Pro Gly Leu Ser Pro		
	420	425
Pro Gly Asp Ala Ser Ser Cys Phe Leu Glu Ser Leu Met Gly Phe Ser		
	435	440
		445

Glu Pro Ala Ala Glu Ala Leu Asp Pro Phe Ile Asp Ser Gln Phe Glu  
 450 455 460

Asp Thr Val Pro Ala Ser Leu Met Glu Pro Val Pro Val  
 465 470 475

<210> 4166  
 <211> 8  
 <212> PRT  
 <213> Homo sapiens

<400> 4166  
 Gly Gly Leu Trp Leu Ser Leu Arg  
 1 5

<210> 4167  
 <211> 2  
 <212> PRT  
 <213> Homo sapiens

<400> 4167  
 Ser Leu  
 1

<210> 4168  
 <211> 17  
 <212> PRT  
 <213> Homo sapiens

<400> 4168  
 Leu Ile Phe Ile Val Phe His Thr Ser Ser Gln Ser Leu Pro Gly Thr  
 1 5 10 15

Trp

<210> 4169  
 <211> 18  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (5)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 4169  
 Met Pro Gly Phe Xaa Trp Phe Val Phe Val Phe Val Phe Leu Ser Asn  
 1 5 10 15

Pro Ala

<210> 4170  
 <211> 629  
 <212> PRT  
 <213> Homo sapiens

<400> 4170  
 Met Cys Phe Ile Pro Leu Val Cys Trp Ile Val Cys Thr Gly Leu Lys  
     1                    5                    10                    15  
 Gln Gln Met Glu Ser Gly Lys Ser Leu Ala Gln Thr Ser Lys Thr Thr  
             20                    25                    30  
 Thr Ala Val Tyr Val Phe Phe Leu Ser Ser Leu Leu Gln Pro Arg Gly  
             35                    40                    45  
 Gly Ser Gln Glu His Gly Leu Cys Ala His Leu Trp Gly Leu Cys Ser  
     50                    55                    60  
 Leu Ala Ala Asp Gly Ile Trp Asn Gln Lys Ile Leu Phe Glu Glu Ser  
     65                    70                    75                    80  
 Asp Leu Arg Asn His Gly Leu Gln Lys Ala Asp Val Ser Ala Phe Leu  
             85                    90                    95  
 Arg Met Asn Leu Phe Gln Lys Glu Val Asp Cys Glu Lys Phe Tyr Ser  
             100                    105                    110  
 Phe Ile His Met Thr Phe Gln Glu Phe Phe Ala Ala Met Tyr Tyr Leu  
             115                    120                    125  
 Leu Glu Glu Glu Lys Glu Gly Arg Thr Asn Val Pro Gly Ser Arg Leu  
     130                    135                    140  
 Lys Leu Pro Ser Arg Asp Val Thr Val Leu Leu Glu Asn Tyr Gly Lys  
     145                    150                    155                    160  
 Phe Glu Lys Gly Tyr Leu Ile Phe Val Val Arg Phe Leu Phe Gly Leu  
             165                    170                    175  
 Val Asn Gln Glu Arg Thr Ser Tyr Leu Glu Lys Lys Leu Ser Cys Lys  
             180                    185                    190  
 Ile Ser Gln Gln Ile Arg Leu Glu Leu Leu Lys Trp Ile Glu Val Lys  
     195                    200                    205  
 Ala Lys Ala Lys Lys Leu Gln Ile Gln Pro Ser Gln Leu Glu Leu Phe  
     210                    215                    220  
 Tyr Cys Leu Tyr Glu Met Gln Glu Glu Asp Phe Val Gln Arg Ala Met  
     225                    230                    235                    240  
 Asp Tyr Phe Pro Lys Ile Glu Ile Asn Leu Ser Thr Arg Met Asp His  
             245                    250                    255  
 Met Val Ser Ser Phe Cys Ile Glu Asn Cys His Arg Val Glu Ser Leu  
             260                    265                    270  
 Ser Leu Gly Phe Leu His Asn Met Pro Lys Glu Glu Glu Glu Glu Glu

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275					280					285					
Lys	Glu	Gly	Arg	His	Leu	Asp	Met	Val	Gln	Cys	Val	Leu	Pro	Ser	Ser
	290					295					300				
Ser	His	Ala	Ala	Cys	Ser	His	Gly	Leu	Val	Asn	Ser	His	Leu	Thr	Ser
305					310					315					320
Ser	Phe	Cys	Arg	Gly	Leu	Phe	Ser	Val	Leu	Ser	Thr	Ser	Gln	Ser	Leu
				325					330					335	
Thr	Glu	Leu	Asp	Leu	Ser	Asp	Asn	Ser	Leu	Gly	Asp	Pro	Gly	Met	Arg
			340					345					350		
Val	Leu	Cys	Glu	Thr	Leu	Gln	His	Pro	Gly	Cys	Asn	Ile	Arg	Arg	Leu
		355					360					365			
Trp	Leu	Gly	Arg	Cys	Gly	Leu	Ser	His	Glu	Cys	Cys	Phe	Asp	Ile	Ser
	370					375					380				
Leu	Val	Leu	Ser	Ser	Asn	Gln	Lys	Leu	Val	Glu	Leu	Asp	Leu	Ser	Asp
385					390					395					400
Asn	Ala	Leu	Gly	Asp	Phe	Gly	Ile	Arg	Leu	Leu	Cys	Val	Gly	Leu	Lys
				405					410					415	
His	Leu	Leu	Cys	Asn	Leu	Lys	Lys	Leu	Trp	Leu	Val	Ser	Cys	Cys	Leu
			420					425					430		
Thr	Ser	Ala	Cys	Cys	Gln	Asp	Leu	Ala	Ser	Val	Leu	Ser	Thr	Ser	His
		435					440					445			
Ser	Leu	Thr	Arg	Leu	Tyr	Val	Gly	Glu	Asn	Ala	Leu	Gly	Asp	Ser	Gly
	450					455					460				
Val	Ala	Ile	Leu	Cys	Glu	Lys	Ala	Lys	Asn	Pro	Gln	Cys	Asn	Leu	Gln
465					470					475					480
Lys	Leu	Gly	Leu	Val	Asn	Ser	Gly	Leu	Thr	Ser	Val	Cys	Cys	Ser	Ala
				485					490					495	
Leu	Ser	Ser	Val	Leu	Ser	Thr	Asn	Gln	Asn	Leu	Thr	His	Leu	Tyr	Leu
			500					505					510		
Arg	Gly	Asn	Thr	Leu	Gly	Asp	Lys	Gly	Ile	Lys	Leu	Leu	Cys	Glu	Gly
		515					520					525			
Leu	Leu	His	Pro	Asp	Cys	Lys	Leu	Gln	Val	Leu	Glu	Leu	Asp	Asn	Cys
	530					535					540				
Asn	Leu	Thr	Ser	His	Cys	Cys	Trp	Asp	Leu	Ser	Thr	Leu	Leu	Thr	Ser
545					550					555					560
Ser	Gln	Ser	Leu	Arg	Lys	Leu	Ser	Leu	Gly	Asn	Asn	Asp	Leu	Gly	Asp
				565					570					575	
Leu	Gly	Val	Met	Met	Phe	Cys	Glu	Val	Leu	Lys	Gln	Gln	Ser	Cys	Leu
			580					585					590		
Leu	Gln	Asn	Leu	Gly	Leu	Ser	Glu	Met	Tyr	Phe	Asn	Tyr	Glu	Thr	Lys
		595					600					605			

Ser Ala Leu Glu Thr Leu Gln Glu Glu Lys Pro Glu Leu Thr Val Val  
610 615 620

Phe Glu Pro Ser Trp  
625

<210> 4171  
<211> 34  
<212> PRT  
<213> Homo sapiens

<400> 4171  
Met Tyr Val Cys Ala Cys Val Phe Val Cys Ala Tyr Cys Val His Met  
1 5 10 15

Cys Val Ser Arg Leu Cys Val Ser Phe Trp Gly Met Cys Val Ser Val  
20 25 30

Leu Leu

<210> 4172  
<211> 16  
<212> PRT  
<213> Homo sapiens

<400> 4172  
Met Thr Glu Leu Leu Leu Phe Phe Ser Pro Leu Tyr Gln Glu Val Asn  
1 5 10 15

<210> 4173  
<211> 2  
<212> PRT  
<213> Homo sapiens

<400> 4173  
Met Ser  
1

<210> 4174  
<211> 15  
<212> PRT  
<213> Homo sapiens

<400> 4174  
Met Ser Asn Trp Trp Arg Trp Gly Leu Leu Leu Trp Pro Pro Gln  
1 5 10 15

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T0024-0000500

<210> 4175  
<211> 60  
<212> PRT  
<213> Homo sapiens

<400> 4175  
Val Ile Thr Met Ala Leu Ala Ala Val Val Thr Glu Val Ala Leu Ala  
1 5 10 15  
Asn Leu Asn Val Val Glu Thr Val Ala Gly Val Thr Asn Gln Met Lys  
20 25 30  
Met Ile Gly Gln Asn His Ser His Gln Val Asn Ala Trp Asn Ser Lys  
35 40 45  
Phe Leu Lys Cys Met Leu Leu Val Met Lys Pro Tyr  
50 55 60

<210> 4176  
<211> 47  
<212> PRT  
<213> Homo sapiens

<400> 4176  
Pro Thr Leu Thr Ala Pro Thr Leu Ala Leu Leu Leu Leu Pro Lys Ile  
1 5 10 15  
Ser Cys Leu Leu Thr Ser Thr His Pro Arg Thr Gln Gly Ser Arg Ala  
20 25 30  
His Phe Pro Arg Ala Trp Arg Thr Pro Gln Thr Pro Ser Ser Met  
35 40 45

<210> 4177  
<211> 27  
<212> PRT  
<213> Homo sapiens

<400> 4177  
Met Ala Ser Thr Ser Arg Trp Thr Arg Trp Ala Leu Leu Leu Ala Ser  
1 5 10 15  
Ser Ser Ala Trp Pro Asn Ser Thr Ala Pro Ser  
20 25

<210> 4178  
<211> 51  
<212> PRT  
<213> Homo sapiens

<400> 4178  
Met Ala Phe Leu Ser Leu Phe Pro Leu Ser Ser Leu Phe Ser His Phe  
1 5 10 15



Ile Leu Ala Thr Pro Gln Pro Leu Val Val Pro His Ala His Phe Ala  
 1 5 10 15  
 Glu Asp Glu Pro Gln Val Leu Ile Arg Cys Trp Asn Lys Pro Pro Xaa  
 20 25 30  
 Leu Ser Glu Ser Pro Thr Asn Leu Glu Phe Glu Thr His Ser Leu Ala  
 35 40 45  
 Arg Leu Asn Gly Leu Cys Ser Ala Ile Lys Arg Leu Leu Gly Cys Tyr  
 50 55 60  
 Pro Trp Gln Gly  
 65

<210> 4183  
 <211> 75  
 <212> PRT  
 <213> Homo sapiens

<400> 4183  
 Met Ser Ala Leu Pro Ser Pro Leu Cys Pro Phe Cys Ser Val Leu Leu  
 1 5 10 15  
 Leu Pro Ser Pro Pro Ala Arg Val Pro Gly Leu Cys Leu Leu Phe Leu  
 20 25 30  
 Ser Leu Pro Pro Leu Thr Pro Pro Ser Thr Val Gly Thr Cys Lys Pro  
 35 40 45  
 Gln Gly Cys Ala Pro Ser Trp Ser Pro Ile His Pro Arg Asn Val Ser  
 50 55 60  
 Cys Ser Ile Tyr Lys Gly His Gly Asp Phe Gly  
 65 70 75

<210> 4184  
 <211> 41  
 <212> PRT  
 <213> Homo sapiens

<400> 4184  
 Met Thr Tyr Leu Leu Phe Leu Ser Glu Leu Asp Thr Leu Cys Pro Gly  
 1 5 10 15  
 Gln Pro Cys Pro Trp Ala Ala Thr Ala His Gln Ser Trp Glu Glu Ala  
 20 25 30  
 Gly Pro Gly Gly Leu Gly Arg Arg Gln  
 35 40

<210> 4185  
 <211> 12  
 <212> PRT  
 <213> Homo sapiens